

# SIGNIFICANT CORRELATES OF J & K HIGH SCHOOLS SHOWING CONSISTENTLY ABOVE AND BELOW AVERAGE RESULTS AT THE BOARD'S EXAMINATIONS FOR THE LAST FIVE YEARS

# NCERT RESEARCH PROJECT



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#### FOREWORD

Since the inception of the formal school system, the evaluation of the work of teachers, administrators and the school itself has been on the basis of the academic achievement of students in the board examinations But the question arises whether it is the right criteria for evaluating teaching and learning. This issue has been infringing the minds of educationists. Another major issue for the educationists been to identify the factors in school results in the board examinations.

Dr.Gupta and Dr. Verma have hit the right nail when they took up this task to peep into the working of such high schools which show consistently above and below average results in the board examinations. They have critically examined this issue by probing into various aspects of the teaching and learning processes especially the teaching competency and adjustment of teachers, organizational pattern, administrative style and views of heads of these schools. Their findings will be a light house for all those who are concerned with secondary education. The study has identified main burdles and bottlenecks which have hampered the right type of education in the schools of a prominent north Indian state of J&K. also tried to suggest some remedial measures for improvement in the existing working of the schools.

Dr.S.M.Gupta and Dr.Lokesh K. Verma deserve my congratulations for investigating such an important area. I am sure this research study will not only become a part of the library cupboards of MCERT, but will serve as an important source of information for school functionaries all over India to improve upon the existing pattern of working of schools. Their efforts, indeed, has been praiseworthy.

Dated: 8th November, 1985

(C.L.KUNDU)

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#### CHAPTER - I

#### INTRODUCTION

#### 1.1 The Problem:

In the present scientific era, the progress of a nation is dependent upon its educational system. Without a sound and qualitative educational system, the nation cannot move with the fast developing countries. In a country, which is underdeveloped on the path of all round development and expansion, it is imperative that its resources are utilized to its fullest extent.

Inspite of rapid expansion of education, it is still demed to a large proportion of people, who are capable of it. Apart from the human cost of failure and under-achievement, if a considerable number of children do not benefit fully from education and their achievements are poor, it is obvious that full utilization of the resources is not taking place. The cases of westage, stagnation and underachievement are costly for a nation. Already faced with alarming rates of wastage and stagnation and problems like mass illiteracy, braindrain, malnutrition and population explosion, no one can afford to overlook the tramendous wastage that result by failure to identify and davalop the promising youth to the maximum limits of their creative potential. According to figures available, it has been estimated that of 100 pupils who seek admission in grade-1, only 12 reach grade-10. This means that nearly 88 percent pupils drapout.

At the school, the child spends almost helf of his working hours. All the tangible and intengible elements, forces and factors that surround a child in a school situation have effect on the learning environment. This shows that the quality of the school and the instruction imparted therein may also be an important determinent. According to Lister, (1960), "Institutional organisations and institutional climates of

the present day centres of learning leave much to be desired. # #

of academic achievement is not governed by his intellectual of academic achievement is not governed by his intellectual equipment, the interacting influence of home and school has effect on the performance of students. The role played by the institution cannot be underestimated. Any study of institutional environment is likely to throw light on environmental factors which give an institution its entity, its character and its uniqueness, which in turn leaves indelible impact on the personalities, adjustment and behaviour of pupils who study therein. "Just as individuals have different personalities, different institutions have different environments."

(Halpin, 1963).

The institutional climate of an institution refers to the academic atmosphere or the learning climate in particular. It is environment in which intellectual, creative and productive powers of the individuals blossom and flower forth to their full. The intellectual climate motivates the students to learn, to work and to make all kinds of concentrated afforts. It possesses the potentiality of stimulating students to develop their power of perception, power of problem solving, analysis, synthesis, conceptual thinking and critical evaluation. It is the institutional climate which inspires the students for independent study and encourages Originality and creativity.

The institutional climate embodies in it the interaction of pupils with teachers, teachers with teachers, teachers with the head of the institution and provision of all those facilities or situations which produce better learning.

The importance of institutional climate may be guaged from welberg's statement that, "Variation in student performance is due mainly to the aptitude of learner and environment of the learning."

Sharma, (1971) stated that the climate is one of the important variables which explain difference among the

performance level of schools. So, climate may be pictured as personality sketch of an institution; as personality describes an individual, so climate defines the assence of an institution.

Some afforts have been made in India to study the organisational and administrative structure of schools.

Adaval, et. al. (1957) studied, The Secondary School libraries in U.P.' He reported that only 14.5 percent of the institutions had provision for separate libraries and reading rooms.

Connor, (1960) concluded that where good classroom climate exists, there are opportunities for students to enhance their academic achievements.

Murthy, (1964) reported that the stock of books, periodicals and refresher material in secondary school libraries in Madras State were quite inadequate and the number of books added annually was very small. Most of the schools did not have qualified librarians. No provision was made in the school time for library work.

Bakshi, (1965) in a study, 'The State of physical education in Delhi Schools', found that only fortyone of fifty nine boys' and eleven out of thirty one girls' school provided facilities for physico-medical examination.

Eose P.K., Banerjee P.I. and Mukerjee S.P.(1965) in a study, 'Educational facilities available in higher secondary schools of West Bengal, found that:-

- 1. Library facilities were very poor in many of the schools. In a few schools, whole time librarians were appointed. In some schools, there was no separate library rooms and books were kept inside office room or teacher's common room or head-master's room.
- 2. In large percentage of schools especially in urban area, there were no playgrounds for the pupils. Physical education programmes were also poorly organised.

3. Regular periodical examinations were not much stressed, nor were they given weightage at the time of promotion to next higher class.

Educational Lurvey Unit of NCEFT(1967), has studied the working of parent - teacher associations in India. It was concluded that parent-teacher associations helped in getting suggests no for school improvement.

Gupta, (1967), investigated the problems facing higher secondary schools and observed that school finance was the most burning issue.

Sinha, (1970) observed that only 5% of 1434 schools surveyed have teachers trained in physical and health education

Directorate of Extension Programmes for Secondary Education (DEPLE), found that teachers: qualification, working conditions, location of the school building, equipment, clerical work done by teachers, pupils previous attainment, pupil attendance, examination etc. were factors which were related to pass-fail parcentage of schools.

Eose P. .., Banerjee P.A., and Mukerjee S.P., (1972) in a study, 'Primary schools and their teachers in West Bengal', found that -

- In less than 25 per-cent of rural primary schools, there were separate rooms for different classes.
- In about 25 per cent of rural schools and 50 per cent of urban schools, separate common room for teachers were provided.
- 3. In 94 per cent of schools in rural area, no facility for drinting water within the school or near school premises existed.
- 4. In majornty of rural schools, there were no teaching aids.
- 5. Teachers in schools ranged in their qualifications from those who did not pass their matriculation examination to those who held postgraduate degrees.

6. In rural areas teachers devoted between 4.5 and 5.5 hours a day to school teaching and more teachers in urban areas undertook private coaching than those in rural areas.

Roy and Rath, (1972) have found that school lunch in Orissa attracted higher enrolment in lower primary schools in general and tribal schools in particular.

Ghatge, A.V., (1973) in a study, 'The progress of city

Poone Education Department in development of Primary Education'

found that lack of proper school building, location of the

school in busy and noisy locality, lack of proper sitting

arrangement and scarcity of drinking water seriously rampered

imparting of education in primary schools.

Karmyogi, R.P., (1974) in a study, "An investigation to the Problems of Educational Administration in M.P., from 1947 with Reference to Secondary Education', found that there were no provision of administrators in 60 per cent institutions. There were no provisions for moral aducation in school curriculum; quarterly and half-quarterly examinations were not given direct credit; promotion rules in the schools were incoherent.

Pillai, J.K., (1974) studied, 'organisational climate, teacher moral and school climate'. He found that both morals and climate were positively and significantly related to both criteria namely pupil performance and innovative ability of the school. Curricular issue, school facilities and rapport among teachers, rapport with principles, teacher work load were found to contribute to pupil performance in schools.

Dekhtawala, P.B. (1977), studied teacher morals in secondary schools of Gujrat. He observed that there was significant relationship between teacher morals and achievament of students.

Rao T.R.S.,(1977) in a problem, 'A study of the class. room climate in secondary schools' found that class-room climate indices correlated positively and significantly with school achievament of pupils.

The school happens to be an important agency of education and it is obligatory on the part of the society to know whether the objectives of education are achieved by school or not. General, personal and social losses in terms of human and physical resources are likely to occur if schools are not subjected to periodical evaluation on scientific lines as to their performance, provisions and expectations. Although emphasis in our country is on expansion of education, yet little attention is devoted for consolidation, follow up and evaluation of institutional climates.

The figures regarding the passed and failed candidates available for the last five years of the Board of School Examination of J & K State are given in the Table 1.1.

TABLE 1.1

NU BER OF STUDENTS APPEARED, QUALIFIED &
FALLED IN THE MATRICULATION EXAMINATION

( J&K State)

S. N	Jo, Year	Number of students appeared	-' Number of students quelified	Number of students	1
1.	1977	23520			
2.	1978	23734	13480	10040	
3.	1979		8642	15092	
4.	1980	22537	12537	10000	
5.	1981	28949	12329		
•	7201	31838	14207	16620	
			+ <del>+ + 2</del> () /	17631	Í
		- <del>-</del>	<u>-</u> _		

If we have a look at the figures, we may conclude that the number of failurs students in comparison to the candidates who have passed the said examinations has increased from 1977

to 1981. There may be many factors which contribute to the increase of the failures. On the basis of studies discussed earlier it may be said that 'Institutional climate', is an important factor which contribute to the causes of failures among the students. Resping these factors in consideration it was thought worthwhile to take the present problem for investigation.

#### 1.2 Statement of the Problem.

The products of universal primary education have overcrowded the high schools. Teachers, however efficient they may
be, can not be expected to know every pupil in a crowded class
and bestow personal attention on him. In several places, classes
are conducted in temporary sheds without any partition between
classes, and without an adequate number of benches and desks or
a good library or laboratory. Guided reading and self study are
practically non-exist sent in many schools.

The lack of full complement of the members of staff during the early months of each academic year is another serious complaint. The strength of the staff is fixed only towards the second academic month. Substitutes are not appointed in several leave vacancies. Inmeny schools, facilities to enable teachers sit to/and work during leisure hours are not provided. This makes preparation for teaching and proper correction of pupils work impossible. No teacher can work efficiently unless the minimum convenience such as at least a teachers' room and a table and a chair for every teacher are made available.

The educational status of the parents and of the other members in the family and in the vicinity, and the occupational status of the parents exercise a direct influence on the aspirations of the children and determine how much guidance and help they can get in their studies. Facilities such as a separate room for study, books and other necessary materials and timely help and the form of private tuition and guidance are often available only with the children of educated and well

to do parents. It may be hypothesized that a school which draws its population mainly from this kind of social background must produce good results. In such schools, if the results are poor who also is to blame except the teacher.

An investigation to find out the factors affecting the achievement of candidates appearing for the matriculation examination of U.E. Board is to be taken. The study was undertaken out of falt need. The discontent bred by wastage and stagnation and by the sub-standard quality of those who pass the matriculation examination has been vehomently voiced by politicians and educationists. The cry against falling standards gradually became against teachers, and it was not seldom that they were condemned in public for their incadequate qualification, insufficient work and colossal negligence of duty.

There are not enough authentic data to show that results depend entirely, or atleast largely, on the work of teachers; nor there are any data readily evailable to show which other factors affect the achievement of pupils.

It is expected that an investigation into organisational and administrative factors which probably affect the achievement of pupils in secondary schools would reveal the inadequacies in the schools, against which teachers fool holpless, as well as inadequacies in respect of the home conditions, interest and inspirations of the students whom they teach. The adjustment and competency of the teachers is also a very vital factor which influence the child in classroom situations. If, above all, these factors do not vitally affect the achievement of pupils at all, the teachers could certainly prevent the large number of failures by putting in more efficient work.

In the light of above considerations, the problem formulated is as such:

SIGNIFICANT CORRELATES OF J&K HIGH SCHOOLS SHOWING CONSISTELTLY ABOV. ( L. BELOW AVERAGE RESULTS AT THE LOARD EXAMINATION FOR THE LAST FIVE YEARS.

#### 1.3 Significance of study

It is generally observed that results in many schools are badly affected by the lack of facilities for promoting the proper teaching-learning process. The results of the present study throw light on the factors responsible for showing above and below average results consistently for the last five years. The organisational and administrative set up of the schools, teachers adjustment and competency of the teachers are the key and pivotal issues in determining the matriculation result of Board examinations. Every year there is competition and challenge before the schools to maintain higher standards and results. The private and public schools are very much conscibus and concerned about their results. The result is the only mirror for exhibiting the type of academic environment. The computency of teachers, their adjustment and allied factors are judged through the type of results attained in every year. When there is a consistency in one or the other type of result, then the institutions are labelled. If the results are consistently good in every year, the signs of good academic and administrative organisation get confirmed otherwise they ard dubbed to have poor standards. The presence of facilities causes a social discrimination in the sense that those who can afford to be in a school which shows good results get enriched exposure and ocientation conductive for their allround harmonious developmen; which others do not get.

Many/the schools are not coming upto the expectations of common man. This is causing a serious concern to the and teachers, administrators/ plenners of education. It is, therefore, expected that through a study of this type, necessary modifications in the educational facilities can be planned in the light of results arrived at and feedback can be provided to the teachers and policy planners.

- 1.4 Objectives of Study:
  - The following were the objectives of study:
- 1. To demarkets and identify the schools showing consistent results above the average pass percentage and below the average pass percentage for the last five years i.e. from 1980 to 1984 in macriculation examination conducted by Board of School Ix minet. I Wak State.
- 2. To study the views of Hoeds of selected schools showing consistently above average & below average results.
- 3. To study the regenisational pattern of the two types of institutions.
- 4. To scale the factors responsible for showing consistently above average and below average results as perceived by Heads of both the categories
- 5. To compare the significance of differences in the proportions of heads belonging to schools showing consistently above and below average results.
- 6. To study differences in dimensions of adjustment of teachers with rispect to sex, locality, economic status, competency of teachers and consistent type of results i.e. above and below everage.
  - 7. To study the rivet and second order interation between;
    - i) sox a d type of results;
    - ii) sex a 1 computomov of teachers;
    - iii) comparate teachers and type of results;
      - iv) local: y on aconomic status;
      - v) locality and type of results:
      - vi) econom a status and type of results;
    - vii) sox and competincy of teachers and type of results;
    - viii) locality and economic status and type of results when differ at areas of teachers adjustment were taken as a dependent variable.

- 8. To study differences in competency of teachers with respect to experience, qualification, training and consistent type of results, (above average and below average).
- 9. To study first, and second order interaction between;
  - i) experience and qualification;
  - . ii) experience and consistent type of results;
  - iii) Qualification and type of results;
    - iv) Training and type of results;

      v) Experience and qualification and type of results;

      when competency of teachers was taken as a dependent variable.
- 10. To find out the relationship between adjustment of teachers and levels of competency of teachers.

#### 1.5 Hypothesis.

The following hypothesis were formulated:

- The factors affecting schools showing above average and below average results may be different.
- The organisational pattern of both types of schools may be different.
- 3. There may be significant differences in the proportions views of of/Heads of schools showing above and below average results.
- 4. There may be significant differences in five areas of adjustment of teachers belonging to schools showing above and below average results with respect to sex, locality and economic status of teachers.
- 5. There may be significant differences in scores of five areas of djustment of teachers with respect to following combinations of the main effects viz., sex, locality, economic scatus, competency of teachers and type of schools showing above and below average results.
- 6. There may le significant differences in competency of teachers with respect to experience, qualification, type of schools / showing above and below average results.
- 7. There may be significant differences in competency of

teachers with respect to training and type of schools showing above and below average results.

- 8. There may be significant first and second order interactions in above efactors when compatency of teachers was taken as a dependent variable.
- 9. The correlation between scores of teacher adjustment and competency of teachers may come out to be positively high.

### 1.6 Operational Terms:

Significant: This word is taken here with respect to usefulness and predominence of factors in schools.

Correlates:- Interrelating variables with reference to result Above average:-Schools showing the consistent results above the average pass percentage for last five years were taken in this category.

Eulow average: The schools showing the consistent results below the average pass percentage for last five years were taken in this category.

## 1.7 Delimitations:

The coverage of this problem was restricted to the following areas.

- 1. All schools showing consistently above and below average results in Jemmu province of J&K could not be taken due to paucity of time, distant location of schools and resources.
- Twenty live schools showing above and below average results were only chosen.
- The background of the students could not be ascertained

  The study of the students could not be ascertained
- 4. The study of teacher was limited only towards his adjustment and competency.
- The stud/ was restricted to the teachers of four compulsory subjects and having five years of stay in respective schools showing above and below average

#### CHAPTER - II

#### COLLECTION OF DATA

Data are things we think with. They are the raw material of reflection, until by comparison, combination and evaluation, they are stepped upto the higher level of generalisation, where again they serve as basic material for further and higher thinking.

Factual data obtained from many sources, direct or indirect, is of great significance for the study such data can be collected by adopting systematic procedures. Proper methodology, probin tools and well planned test administration go a long way towards collecting data that are relevant and adequate, both quantitatively and qualitatively. The choice of methods fo collecting data depends upon the nature of the problem in hand.

The present piece of research, is a 'school-survey and empirical study. The survey according to recent social science terminology, is an organised attempt to analyse, interpret and report—the present status of a social institution group or area. Its purpose is to get groups classified, generalised and interpret date, for the guidance of practice in the immediate future. According to Webester's New Collegiate Dictionary, 'A survey is—critical inspection to provide exact information'. J.B. Sears, of Stanford University is known as father of school survey. The purpose of school survey is to gather a detailed information to be used as a basis for judging the effectiveness of instructional facilities, curriculum, teaching and supervisory, personal and financial resources in terms of best practices and standards in education.

This chapter is limited in its coverage to the extent that it includes the discussion of following aspects:

- 2.1 Selection of sample
- 2.2 Tools Used
- 2.3 Administration of tools

- 2.4 Scoring
- 2.5 Tabulation of Data
- 2.6 Proposed statistical techniques.

# 2.1 Selection of the Sample:

Sampling is fundamental to all statistical methodology of research. It is the part of the strategy of research.

Before taking any research problem, it is necessary to plan "sampling design", which is the joint procedure for selection and estimation.

Sampling in aducational research means a segment of population, a located from the universe, for the purpose of applying generalization of the study on universe. In every type of data the human beings are mainly concerned - does the phenomena exist? If it exists to what extent does it exist? Due to the vestness of Universe, it is physically impossible for a researcher to take into consideration every individual or phenomena. For convenience, the researcher selects small segment of population through sampling technique.

sampling has great utility in research to estimate an accurate guess about population. Compling is easier, less time consuming and consumed to the researcher. He selects a small sample there so action whole universe for his research study. But the success of semiling depends upon the fact that sample should be true raples attained or whole copulation. The sample for the present study to a select of from succedary schools and higher secondary school achoes a factor province. The stratified random sampling technic to was employed for the selection of the sample.

In the very first phase the researcher collected the year-wise result parcentage of matriculation examination of Jammu province of J & K Board for the last five years i.e. from 1980 to 1984. I be year-wise result percentage of matriculation examination is above in Toba 2.1.

TABLE 2.1

Year-wise Result Percentage of Matriculation Examination of Jammu Province of J & [] Poord for the last five years:

Year	Rusult Parcentage	Overall pardentage of each five years
		مناه کیست منط مید کسی کسی مدد بین داند به ادا سده برا ب
1979 <b>-80</b>	56.20	
1980-81	52,10	
1981-82	52.50	52.92 or
1982-83	48,11	£3.00
1983-84	49.77	
_		

Ther were 305 schools which sent their students for appearing in Matriculation Examination of J & K Board in Jemmu Province. The pass percentages of 305 schools for five years separately were computed amounting to 152% percentages.

After this the researcher found the overall bass percentage for the schools in Jammu Province of JCA Board for the lest 5 years. The overall percentage forms out to be 52.92, which was rounded off to 53% as shown in Table 2.1. Thus figure of 53% was used in categorizing schools showing consistently above everage and below everage results. Thus the schools showing more than 53% result continuously for the last 5 years were determined as schools showing good i.e. above everage results and the schools showing traults below the overall result, percentage (53%) for the last 5 years were labelled as schools showing consistently bed i.e. below everage results. The list of such schools consisted of 82 schools.

A difficulty before the researcher was that all 82 schools were distantly and widely spread over different parts of each district in Jammu province of J&K which unabled the investigator to misit all the schools personally. Some schools

were in rural locality and some were falling in various urban places of J&K. Further the number of schools in both the categories was unequal. The number of schools showing above everage result was 57 out of 82 and rest of 25 schools showed result below average. It was still not possible to visit this wide spread number of schools. The two types of schools showing above average and below average results form two strates out of which further sampling was done. It was however decided that even 25% to 30% as clusters of schools from both the categories if chosen randomly will make the sample representative, So, a systematic procedure was adopted to choose 25% to 30% of the schools randomly from both the categories. this way, the number of schools chosen for showing consistently good results above the evurage came out to be 16 and the number of schools showing the results below the average came out to be 9. These 16 and 9 schools are scattered over the various parts of Jammu province in J&K which makes the researchar sure that the sample is deemed to be representative.

Further, the researcher selected only four teachers from each school traching English, Science, Mathematics and Hindi to A Class istudents. Thus a sample of 100 teachers tracking X Class was selected from these 25 schools of Jammu province of oak state for data collection. The names of the schools and number of teachers chosen from each school are shown in Table 2.2

#### TABLE 2.2

Names of Schools and Wumber of Teachers selected for data collection.

Sr.No. Schools showing consistently No.of teachers abova avaraga rasult selected Govt.Girls High School, Chenani (Udhampur) 1. 4 2. Vivek Nimeten, Udhempur

4

З.

Govt. Girls High SchoolGagwal (Hiranagar)

Sr.No	. Schools showing consistently above average result	No.of toachers salacted
4,	Govt. High School, Sallen (Hiranager)	4
5.	Govt, High School, Chenneprian (Hiranagar)	4
6 <b>.</b>	Jagriti Niketan, kathua	· 4
7.	Sovt. High School, Lamberi, (Nowshera)	4
8.	Govt. Girls Higher Secondary Echool, Rejouri	
9.	Govt. Girls High School, Samba	4
10.	Contral Basic School, Jammu	4
11.	Govt, Girls High School, Kachichowni	4
12.	Luthra Academy, Gandhinagar	4
13.	Oriental Academy, Jammu	4
14.	Model Ac demy, Jammu	4
15.	Govt. High School, Balwal	4
16.	Govt. Girls High School, Bakshinagar	4
	Total	64
<del>,</del>	Total	64
sr.No	. <b> </b>	No.of teacher selected
sr.No	Schools showing consistently below	No.of teacher
	o. Schools showing consistently below average result	No.of teacher selected
1,	Schools showing consistently below everegs result  Govt. High School, Barolla (Udhampur)	No.of teacher selected
1.	Govt. Higher Secondary School, Reasi	No.of teacher selected  4 4
1. 2. 3.	Govt. Higher Secondary School, Eiranagar  Govt. Higher Secondary School, Eiranagar	No.of teacher selected  4 4
1. 2. 3.	Govt. Higher Secondary School (Boys), Poonce	No.of teacher selected  4 4 4 4
1. 2. 3. 4.	Govt. Higher Secondary School, Eiranagar Govt. Higher Secondary School, Eiranagar Govt. Higher Secondary School, Reasi Govt. Higher Secondary School, Eiranagar Govt. Higher Secondary School (Boys), Poonc Govt. High School, Soulki (Kalakota)	No.of teacher selected  4 4 4 4 4 4
1. 2. 3. 4. 5.	Govt. Higher Secondary School, Reasi Govt. Higher Secondary School, Reasi Govt. Higher Secondary School, Reasi Govt. Higher Secondary School, Rirenagar Govt. Higher Secondary School(Boys), Poonce Govt. Higher Secondary School(Boys), Poonce Govt. High School, Soulki(Relakota) Govt. High School, Muthi (Jemmu) Govt. High School, Reipur (Jemmu)	No.of teacher selected  4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
1. 2. 3. 4. 5. 6.	Govt. Higher Secondary School, Reasi Govt. Higher Secondary School, Reasi Govt. Higher Secondary School, Reasi Govt. Higher Secondary School, Rirenagar Govt. Higher Secondary School(Boys), Poonc Govt. High School, Soulki(Relakota) Govt. High School, Muthi (Jemmu) Govt. High School, Reipur (Jemmu) Govt. High School, Reipur (Jemmu)	No.of teacher selected  4 4 4 4 4 4 4 4 4 4 4 4 4
1. 2. 3. 4. 5. 6. 7.	Govt. Higher Secondary School, Reasi Govt. Higher Secondary School, Reasi Govt. Higher Secondary School, Reasi Govt. Higher Secondary School, Rirenagar Govt. Higher Secondary School(Boys), Poonce Govt. Higher Secondary School(Boys), Poonce Govt. High School, Soulki(Relakota) Govt. High School, Muthi (Jemmu) Govt. High School, Reipur (Jemmu)	No.of teacher selected  4 4 4 4 4 4 4 4 4 4 4 4 4

#### 2.2 Tools Used:

The following tools were used by the investigators:

- 1. Chock list
- 2. Schedule
- Э. Questionnaire
- Panday's Teacher Adjustment Inventory 4.
- Baroda General Teacher Competency Scale. 5.

#### 2.2.1 Check-list

A checklist was propared to assist the investigator for the personal observation. First of all, items on which the information was needed, were datermined. The items of the checklist were based on the following aspects.

- Total number of teachers in the institution
- Number of trained and untrained teachers b.
- Averag work load of the trachers C.
- đ. Total experience as well as experience of Head in present institution
- Location of the institution æ.
- f. Pupil transportation
- Building of the institution g.
- Drinking water, electric light, heating and h. fan fac.litias

3.

- l. Class-rooms
- ĵ. Hardwar s
- k. School acords
- Teaching Aids. Cocurricular Activities and Moral Education.

The items were arranged in the categories in logical order and related items were grouped together. Cortain items had sub-catagories to answer and some had only two options Yes/No.

After preparing the tentative draft of the checklist, it was discussed with the teachers of different institutions selected for the present study and necessary modifications were made in the items of the check-list. A copy of the check-list is enclosed in the Appendix.

#### 2.2.2 Schedules

Schedule is the name usually applied to a set of questions, which are asked and noted by the interviewer in a face to face-situation with another person.

A schedule was prepared by the investigator to collect the required information from the heads of the institution pertaining to the discipline, tr ancy, co-curricular activities, school publications, teaching aids, special classes for the exceptional children, health education, moral education, home work, examination and administrative style of the head of the institution.

Before preparing the schedule, some schedules/
questionnaires already prepared were studied by the investigator.
First of all, items which were to be taken in the schedule were
determined and questions were prepared for each item. The
schedule contained items of the closed form. Certain items were
of multiple choice type and some had only yes/no alternatives.
At certain places for unanticipated responses, an 'open'
category of response was provided with a request 'kindly specify',
or 'Any other - places mention'. Oppwortunity was given to the
respondents to include supplementary or explanatory information
while preparing the schedule.

The items of the schedule were erranged in categories to ensure accurate and easy response. As far as possible, items were so worded that these tie into the respondents present level of information in a meaningful way and items might not constitute a threat to the respondent's ego. It was carefully seen that each item of the schedule deals with a single idea. The items were designed in such a way that would give a complete response and use of double negatives in items was avoided. Items were phrased in such a way that they suit all respondents. The wording of the items was made as far as possible understandable

and familiar in order to ensure the respondents comprehension of what is being asked.

with colleagues and teachers. Their views were taken and necessary modifications were made. Again, the schedule was shown to the language experts and required improvements were made on the basis of comments given by the language experts. When the tentative draft of the schedule was complete, it was discussed with few teachers of the institutions selected for the present study. Their reactions were noted down and modifications, improvements and additions were made, wherever it was thought necessary. A copy of the schedule is enclosed in Appendix.

## 2.2.3 <u>Cuestic mairo:</u>

A questionneire is a set of questions prepared systematically and logically, which is filled by respondent himself. It is a stimulum which provokes the responses of the individual in relation to certain phenomenon. The questionneire hero consisted of 15 factors effecting results. Directions for the completion of questionneire were given in the list. This questionneire was to be filled by Heads/Principals of the institutions. This questionneire was meant for sacking views of Heads relating to the factors effecting matriculation examination results of J&K Board every year.

For induring the respondents for compliance to the request of filling the questionneirs, a covering letter couched in a courteous language was accompanied with it. A request was made to the respondents to give necessary information taking care that no item was left unmarked. Again, it was made clear to the respondents that information collected would be kept confidential as it was to be used only for the research purposes. A copy of the questionneirs is enclosed in Appendices.

## 2.2.4 Panday's Tracher Adjustment Inventory:

This inventory requires to discriminate between well adjusted and poorly adjusted teachers. The inventory provides five separat areas of adjustment namely:

Element P Heavih Adjustment

Elema co Home & Social Acjustment

Element C - Brenomic Adjustment

Element D Institutional Addustment

Element E Ethic 1 Adjustment.

The inventory contains 150 items. There are five sections of the inventory each consisting of 30 items. Inventory is non-timed, resy to administer and quick to score. It takes about 50 to 60 minutes to enswer all the questions. It is suitable for us, with both sexes. A high score on this inventory on so 1 adjustment area indicates a superior adjustment while a low score indicates poor adjustment.

For the estimation of reliability of adjustment inventory the scores of 100 teachers were randomly taken from the sample. As the inventor consisted of 5 elements or areas, the reliability was estimated group-wise. The estimated reliability of each group has been shown in 5 able 2.3

TABLE 2,3

	Employ Security of Security and Control of the Prince of
ž.	,77
	,81
	,86
<b>V</b>	,70
£	.66
	الفلار لادر فالمنا البيطناني الجيد سيها بالمهيج استنبت مهيد مصرفها موان من مستمر

The reliabilities of the components were needed for composite reliability. Since, five components instead of two were involved in inventory, the expended Mosier formula was applied. The weight assigned to each component was taken to be 1. After submittating the values in the Mosier formula the

d diam'r

composite reliability came to be .91 which is highly consistent.

Validity: - After the administration of Panday's teachers adjustment inventory, Asthema's Hindustan Adjustment Inventory was administed to 200 deachers, who were randomly taken from the same sample for the stimation of validity. By applying Pearson's product homent formula the value dama to be .69, which was considered to be valid. This validity in ifficient of .69 shows that there exists substantial relationship between two inventories.

Norms: In the process of standar lization of a test, the establishm at of norms is a very important step. For this purpose raw soccess were converted into Tascores. Tascores for each element of inventory for male and female teachers separately were also calculated. Five point scale of norms based on S.D.Units have been prepared on Tascores. Table 2.4 showing norms is given below:

TABLE 2.4

Five point scale of Norms based on 5.D.

	TIME DOING SCOTA OF NOTICE DESAGRACTOR PART TO THE TRANSPORTED TO THE PROPERTY OF THE PROPERTY					
	Male	<u>Femele</u>	Adjustment			
A.	337 & above	335 & above	Excellent Adjustment			
Б.	<b>295 –</b> 330	295 - 334	Good Adjustment			
С.	211 - 29	210 - 295	Satisfactory Adjustment			
D.	169 210	170 ~ 217	Unnous sfeatory Adjustment			
£.	Below 16'	Balow 179	Very unsatisfactory Adjustment			

## 2.2.5 Baroda's General Teaching competency-scale (GTC):

The GTC 'sele is generally used for measuring teaching competency of a teacher individually in a classroom situation by a reliable observer or a group of reliable observers making direct observations of his classroom behaviour for the entire teaching period.

There are I stoms related to 21 tenching skills, which

encompass the antire tacching—learning process in the class—room. They are related to five major aspects of class—room teaching, memely; Planning, Presentation, Closing, Evaluation and Managerial. The items are such that they are centred around teacher class—room behaviour in relation to pupil behaviour. It is a 7-point rating scale measuring the use of the skill by the teacher in the class—room corresponding to each item ranging from '!' for 'not at all to '7' for 'very much!

Reliability:— Since this is an observation tool, the appropriate type of reliability is the inter-observer reliability. This scale has been used for doctoral research (Joshi 1977; Passi,1977) and the reported inter-observer reliability co-cfficients range from 0.85 to 0.91. Inter-observer reliability can be better istablished when the observers train themselves for using the GTC Scale.

## Validit/:-

The Scale has content validity since at every stage of its development discussions were held with educators with regard to the different teaching skills included and their behavioural components. This finds further support from the literature. For listing the teaching skills under each classification and detailing out their behavioural components, the major references made were instructional material for various teaching skills leveloped by Joshi (1977), Lalita(1977) and Passi(1977) and book on teaching methods, principles of teaching and educational paychology.

The scale has factorial validity. This was established by Rama (1979) in her doctoral study on Jactorial structure of teaching compatancies among secondary school teachers. While developing an observation schedule, she made a list of teacher behaviour on the Dasis of behavioural components of the skills conceptualised by Passi(1976) which constitute the very same

skills as included in the GTC scale. This resulted into 85 verbal and non-verbal behaviours that could be clustered around 15 teaching skills. Table 2.5 gives the teaching skills and their behavioural components included in the inventory.

TABLE 2.5

Distribution of Teacher Behaviour under the different Leaching skills

Sr.No.	Teaching Skills	No,of	Teacher Behaviour	<b>~ ~</b> S
1.	Introducing a lesson		4	
2.	Fluenc, in questioning		7	
3.	Probina questionina		5	
4.	Explair ing		8	
5.	Stimulus variation		7	
6.	Silence and non-verbal clues		5	
7.	Pacing and lesson		4	
8.	Using audio-visual aids		6	
9.	Illustrating with examples		5	
10.	Using B ckboard		4	
11.	Reinforgement		5	
12.	Achieving closure		4	
13.	Macagnising attending behavior	ır	4	
14.	Class-room Management		11	
15.	Giving assignments		6	
	ני	Cotal	85	

Besed on a large number of observations, the observation schedule was revised wherein one of the teaching skills was dropped because of high everlaping. The final form of the schedule consisted of 86 well defined categories. Using the schedule, 23 teach as from the city of Baroda (pilot study) and 130 teachers from the city of Banglore (final study) were observed. It was possible to obtain Scott's co-efficient of

inter-observer validity ranging from 0.78 to 0.82 while observing teachers on the process variables choosen.

## 2.3 Administration of Tools:

## 2.3.1 Administration of Chacklast, Schodule & Questionnaire:

The investigat , first of all sand a request letter to all the heads of selected schools in order to fix up time and convenient date for the administration of thols. Some heads were very generous to reply and some did not bother to do so. Later the investigator visited the institutions parsonally and tried to establish rapport with the Heads. The investigator administered the various tools to the selected teachers and heads of the institution with a proquest to give their responses against the items of all the tools separately. The teachers showed keen interest and involvement to go through each item sincerely and carefully. They were explained the purpose and significance of collecting required information from them. was also made clear to them that the information collected would be kept confide tial and utilised for research purposes. Many teachers made a request to the investigator to send them a reply to ensure whether they have proved competent or non-competent. There was some flackness and non-cooperation from some schools where the results were consistently bad. But the investigator managed to get miximum information through personal influence and assess. It was ensured that no item was left unattempted by any teacher or h ad.

The check ist, schedule and questionnaire were administered to the teachers & head are a quisite data was filled.

## 2.3.2 Administr tion of Panday's Teacher Adjustment Inventory:

The investigator distributed adjustment inventories to the teachers and equested them to read carefully the statements contained in the aventory. The investigator also asked teachers to put a teacher of Tick ( \( \nabla '\)) against Yes/No for each

statement they think as the most appropriate answer. After the teachers answered all the statements, the researcher collected the inventories for further statistical treatments to reach to conclusions.

## 2.3.3: Administration of General Teaching Competancy Scale:

as Adjustment inventory is administered. Here the investigator himself evaluated the teaching competency of the teach r with the help of GTC scale in the class-room.

As the teachers the investigator sat at the back for observation. It the end of teaching period, he gave ratings on the GTC so e against all the items. To facilitate this process, the exchange marked frequencies against each item during teach of by the teacher which helped him in giving ratings more objectively.

## 2.4 Scorin | Procedure

## 2.4.1 Scor ng of Questionnaire, Schedule and Checklit:

The schring of the checklist and schedule is different from psychological tests. Here the responses are counted frequency-wise rather than giving marks to the response of each item. The response of all the tools are counted question-wise.

The scring of questionnaire is peculiar. The Heads were asked to give 5 marks to the factor he or she likes most and one mark to the factor he or she liked least, for affecting examination results. Similarly, Head of the institution was requested to mark 4,3 and 2 marks to the factors in order of preference.

## 2.4.2 Scoring of Adjustment Inventory:

For scar ng purposes, a punched stencil was prepared for right answers. hile scaring, all answer-sheets were checked and no credit was given to double marking. The stencil was placed over the "swer-sheet and right answers were found out by

counting the number of tick marks ( ) appearing through holes. The scoring was done area-wise and the scores of each area were totalled.

## 2.4.3 Scoring of General Teaching Competency Scale (GTC):

The sim of ratings against all the 21 items constitute the scores on GTC of the observed teachers. The maximum possible score is 147 and minimum is 21.

## 2.5 Tabulation of Data

It consists of categorization of teachers in different groups. The tachers belong to schools showing:-

- (i) Consistently above average results
- (ii) Consistently below average results in the matriculation examination of J&K Board of School Education.

After tobulating the scores based on different tests, the investigator made up groups by computing  $P_{40}$  and  $P_{60}$  on different variables viz. adjustment and teaching competency in class-room.

The calculated value of  $P_{40}$  and  $P_{60}$  for adjustment—came out to be 103.25 and 112.63 or with roundings taken as 103 and 113. Similarly the calculated values of  $P_{40}$  and  $P_{60}$  for teaching competency damped out to be 90.4 and 99.5 respectively, which with roundings can be taken as 90 and 100 respectively. The teachers whose scores on teacher adjustment inventory were less than the value of  $P_{40}$  i.e. 103 and to be considered as poorly adjusted teachers and the eachers scoring above the value of  $P_{60}$  i.e. 113 are liable to be well adjusted. Similarly, teachers scoring below the calculated value of  $P_{40}$  i.e. 90 on teaching competency are considered non-competent and the teachers scoring above the value of  $P_{60}$  i.e. 100 are considered competent teachers. Tables

showing calculated value of  $P_{40}$  and  $P_{60}$  for both the variables are as under:

TABLE 2,6

Showing values of P40 and P60 for teachers adjustment

Scores 6'-69, 70-79, 80-89, 90-99, 100-109, 110-119, f 2 4 8 17 24 16

Scores 12-129, 170 179, 140-14, f 16 10 3 = Total 100

40 = 103, 25 = 1<sub>CO</sub> = 112-63

## TABLE 2.7

Showing values of  $P_{4C}$  and  $P_{60}$  for Teaching Compatency

Scores 20-19.30-39, 40-49, 50-59, 60-69, 70-79, 80-89

f 1 0 3 3 7 14 10

Scores 90-9, 100-109, 110-119, 120-129

f 2 23 14 3 = Total 100

Further the economic status of teachers is determined keeping in visa their income from all sources. The range of annual income of teachers is R. 3000-50,000, The teachers whose annual income from all sources is below \$5.20,000 are to be considered as b longing to low- round status and the teachers whose annual income is more than 20,000 are to be placed in the category of teachers belonging to high aconomic status.

The rang. of traching experience of teachers varies from 2 to 15 years. The teachers whose teaching experience is below 6 years in present school are considered as low experienced teachers, whereas teachers having more than six years of teaching experience in the school in which teachers are working are

considered as high experienced teachers. The trained and untrained teachers are decided on the basis of B.Ed. degree. Those who have attained this degree are labelled as trained end simple B.A./B.Sc./M.A./M.Sc. degree holders are untrained teachars.

Thus teachers are categorized as:

- 1. Compatent and non-compatent
- Well adjusted and poorly adjusted 2.
- Male and Fimals 3.
- Urban and Rural 4.
- Highly experienced and low-experienced.
- 6. Z Ecunomic Status and low-aconomic status
- Trained and untrained.

Number of teachers in each group are listed in the tables 2.8 to 2.13, as under:-

## TABLE 2.8

N..of competent and non-comptent teachers in relation to good and bad results

		- readits	
Exam.Rusult.	Tyachar		
	Competant	Non-compatent	
Good	42	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
Bad		12	
	4	25	

## TABLE 2.9

No. of poorly adjusted and well-adjusted trachers with respect to good and bad results:

Exam, Rasult			
	Teacher	r	
	Poorly Adjusted	Well Adjust	h∈
Boce	27		
Bad	-	32	_ **
	12	11	
			·

## TABLE 2,10

No.of urban and rural teachers in relation to good and bad results

·	to good and	bed results	
	Tanch		_
Exam.Result	<u>Teach</u> Urban	Rural	
Good .	43	2,1	
B∂d	19	17	
	TABLE 2	.11	
N·c·		perienced teachers	
1.0	_	good & bad results	
Exem. Rosult	T∋ac ⊬igh	Low	
	experienced	experienced	
	18	و نوب چ) پورو منط پستو لومو ستو استو بخو ستو منط ستو ستو	- ,
Good		46	
Bed	11	2,2	
		و تصور مسمل محمور مجلس ومرب ومور تحمها سدو جدیت اصط	<u></u>
	TABLE 2	2.12	
, כיוֹ	, of High economic	status & low aconomic	
	status trachers and bad	in relation to good results	
Dyna I ault-		ا عمد اس بنیا سے بھی جو بدو است بہا سے اس ا	-
Exam,Kasults	HES	LES	
			_
Good	19	45	
Bad	10	26	
			_
No.of Train	TABLE  Table 1 to 1 to 1 to 2 to 2 to 3 to 3 to 3 to 3 to 3 to 3	2.12 teachers with respect to	
	god and be	ed results	
Exam.Results	Ta	echer	
	Trained	Untrained	-
Good	45	19	

26

10

Bad

## 2.6 Proposed Statistical Techniques

The researcher proposes to make enalysis on different types of scares available for further comparisons to draw inferences with the help of statistical techniques. The statistical techniques to be applied in the present problem may be like computation of percentage, Biserial correlation, incomplete rank order, Critical ratio, Inalysis of variance etc. The analysis has been made in the next chapter.

\_ \_ \_

## CHAPTER - III

## ANALYSIS OF DATA

The Collected data must be processed and analysed to draw the proper inferences. It is worthwhile that data collected should be elicited systematically, classified and tabulated scientifically, intelligently interpreted and rationally concluded. Analysis helps the researcher to develop an elert, flexible and open mind to the project undertaken.

The work of present study is multi-dimensional. of the objective is to study the organisational pattern of both type of schools i.e. schools showing above average results and the schools showing below average results for the last five years. The data for this aspect is collected through checklist. The second objective is to seek the opinions of Heads of two types of institutions regarding the supervision and administration of the work of the teachers. The views of Heads from both the categories of schools is recorded through schedule. third related objective is to scale the factors affecting consistent results of each type of the school for the last five years as may be perceived by Heads of the institutions. information is obtained through a list of questions, contained in the questionnaire. The fourth broad objective is concerned with the study of mean differences in teaching competency and adjustment scores of different types of teachers belonging to schools showing above average and below average results. The fifth objective is to find out the relationship between the adjustment scores of competent and non-competent teachers.

## 3.1 Statistical Techniques Employed

All the objectives of present study were realised by putting statistical treatment to the collected data. The data i analysed by making use of the following statistical techniques:

- 1. Calculation of Percentages
- 2. Calculation of X2
- Calculation of Scale Values through Thurstone's Incomplete Rank order
- 4. Critical Ratio
- 5. Analysis of variance
- 6. Biserial Correlation.

## Percentages and 12 (chi square)

The whole work is divided into five sections. The first and second section is related to the calculation of percentages and  $\mathbb{R}^2$  for the data collected through checklist and schedule. These two calculations are made on the frequencies and counts. The techniques are non-parametric and are related to nominal level of measurement where the information to be analysed is either categorised or classified into more than one type. These techniques are applied herefor the data collected through checklist and schedule.

## Thurstone's Incomplete Rank Order

The third section deals with the application of Thurstone's Incomplete Rank order to scale the factors responsible for affecting the matriculation results within two types of the schools. Thurstone explained that there are some practical situations in which stimuli may be large. Under such experimental situations, the researcher is advised to select best five or ten objects and rank only those which are selected. In the present investigation, the researcher employed this technique for deriving the scale values as the number of stimuli were 15. There are two groups involved in the present investigation. The complete statistical process for each group has been discussed separately in the third section of the analysis of data.

## Critical Ratio

The critical ratio was applied to find out differences in the proportions of the heads belonging to two different types of school groups.

## Analysis of Variance

Analysis of variance is applied in fourth section. Analysis of variance is nothing but an aconomical method for testing significant differences between means of two or more groups. As "t" test is useful in testing the significance of means of two groups, Anova is used for testing the significance of mean differences among two or more than two groups. Moreover as computations of a large number of "t" ratios would involve more time and energy to meet these situations, Fisher introduced analysis of variance. The investigator also selected the same technique to meet these situations in order to arrive at suitable conclusions.

## Advantages of Analysis of Variance

The following are the major advantages of ANOVA:-

- 1. The possible significance of mean differences can be enalysed by an overall test of significance, when there are many results to be compared. The use of ANOVA involves less risk of "alpha-error" i.e. when we reject the null hypothesis at small variance value to be significant at 0.05 level of significance.
- 2. Another advantage arises in the use of factorial design. The factorial experiment has a number of merits. It is convenient in two ways:
  - (a) It brings to the mind a summary of a mass of statistical data in which the logical content of the whole is really appreciated.
  - (b) Apart from aiding in the logical process, it is convenient in facilitating and reducing to a

common form all the tests of significance which wa want to apply.

3. The third advantage of analysis of variance arises in the use of a randomized block design. This method tends to lessen the risk of type II error i.e. failing to reject the null hypothesis. This is the case because the estimate of sempling error is usually smaller, when the variance associated with the differences among the means of the block have been estimated from it. The advantage, thus makes an increase in the power of the test variance ratio "F" and it increases the possibility of rejection of a false null hypothesis.

## Biscrial-Correlation

The researcher has employed bisertal correlation in order to study the relation between competency of teachers and their adjustment scores in section fifth.

## Section I : Analysis of Chacklist Responses:

The first objective of the study was realised by obtaining frequency counts of various categories of the various items of the checklist which were converted into percentages, wherever it was thought necessary. Sometimes, average of responses was found out. The analysis of the results and their interpretation are discussed as under:

The information regarding the total number of teachers, number of trained teachers and untrained teachers was gathered through items, 1,2 and 3 of the checklist. The results are, summarised in the tables 3.1 & 3.2.

Category A means schools showing consistently above everage results and category B means schools showing consistently below everage results for last five years in matriculation examination of J & K Board of School Education.

TABLE 3.1

Number of Total and Untrained Teachers in both categories

t <del>u</del>	₩	Category			1 1 1				
5.4	<u>Н</u>	B.A.B.Zā.			1 1 1				
22	7	B.A.			! ! !				
σ	7	: 上、SC。 H、Ed。			1 1 1			Cer	
15	17	N.A. B.Ed.	barc		1 1	₽	Þ	Cetegory	
ω	ω	M.A.M.Ed.	Parcantaga of Various ca Taachars	TAELE	1 1 1 1 1 1	21	24	Avarega number of Teachers	of bo
H	И	L.H.	s cetegories hers	3 2	1 1			of Teach	of schools
u	10	Shastri	ries of		1 1			1	
ហ	22	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		,	1 1 1	12	18	Percentege untrained t	U
ហ	o	P.T.I.			1 1	,		of	Ţ
σ	ω	Others			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		:		

## INTERPRETATION

Average number of teachers in the institutions of the category F is 24, whereas average number of teachers in the institutions of categories E is 21. Out of total number of teachers in the institutions of the category A, 18 per cent are untrained whereas 12 per cent teachers are untrained in the institutions of the category B.

Out of total number of trained teachers in the institutions of the category A, 51 per cent are B.A.B.Eds;

7 per cent are E.Sc.P.Eds; 7 per cent are B.A.M.Eds; 17 per cent are M.A.B.Eds; 3 per cent are M.A.E.Eds; 2 per cent are L.Ts;

2 per cent are Shastris; 2 per cent are drawing teachers; 6

per cent P.T.Is and 3 per cent are others whereas out of total number of trained teachers in the institutions of the category

B, 54 per cent are E.A.B.Eds; 6 per cent are B.Sc.B.Eds; 2 per cent are B.A.M.Eds; 15 per cent are M.A.B.Eds; 3 per cent are

M.A.M.Eds; 1 per cent are L.Ts; 3 per cent are Shastris; 5 per cent are drawing teachers; 5 per cent are P.T.Is and 6 per cent are others.

2. The information regarding '/verage work load of teachers' was collected though item No.4 of the checklist. The findings are generalized as under in Table 3.3.

## TABLE 3.3

## AVERIGE WORK LOAD OF TEACHERS

Average work load of Catagory Teachers per day

A 5 pariods

B 6 periods

## INTERPRETATION

Average work load of all teachers in the institutions of the category : is 5 periods per day whereas average work load of all teachers belonging to institutions of the category B is 6 periods per day.

3. The information regarding the experience of the head of the institution, was collected through items 5 and 6 of the check-list. The findings are summarized as under in Table 4.

TABLE 3.4

## EXPERIENCE OF THE HEADS

Category	Average total exparience of the heads in years	Average exparience of the heads in present institution, in years
Α	26	5
В	28	3

## INTERPRETATION

Average total experience of the heads in the institutions of the category I is 26 years whereas everage total experience of the heads in the institutions of the category E is 28 years. Average experience of the heads in the institutions in which they are serving at present belonging to the category I, is 5 years, whereas average experience of the heads in the institutions in which they are serving at present belonging to category B is 3 years.

4. The information regarding 'location of the institution' was collected through item No.7, of the checklist. The results are tabulated in table 3.5 as under:

TABLE 3.5

LOCATION OF THE INSTITUTION

Category	Perca	ntage of inst	itutions situat	ion
	In Urban area	InRUral araa	In the mein market	On the road side
А	65	35	35	65
₿	23	77	28	72

## INTERPRETATION

65 per cent institutions of the category 1 are situated in the urban area and 35 per cent in rural area.

35 per cent institutions of this category are situated in the main markets and 65 per cent on the road side. On the other side 23 per cent institutions of the category B are situated in urban area, 77 per cent are in rural area. Further 28 per cent institutions of this category are situated in the main market and 72 per cent institutions are situated on the road side.

5. The information regarding the maximum distance which the students have to cover to reach the institution and means of transportation from their home to the institution were collected through items 8,9,10,11, and 12 of the checklist. The results are summarised as under in Table 3.6.

TABLE 3.6

DISTANCE AND TRANSPONTATION FACILITIES

Catagory	Fverage distance students have to cover to reach the institution	Providing school	titutions Local bus facility	
<b>7</b> .	8 Kms.	4	84	
В	12 kms.	-	75	

## INTERPRETATION

The everage distance, which students of the institution of the category A, have to cover is 8 kms; 4 per cent institutions of this category provide school bus facility. Further more 84% students of this category can also avail themselves of the local bus facility. Average distance covered by students of category B is 12 kms. 75% students avail of local bus facility with no school bus facility.

6. The information regarding the building of the institution was collected through items 14,15,16 & 17 of the checklist.

The information collected is tabulated in Paber 3.7.

## TABLE 3.7 TYPE OF THE BUILDING OF THE SCHOOL

C.	tegory	Pucca	Kacha	nstitutions h Mixed Lype building	eving Shed	buil- ding	od Class. rooms Lab,offic situated t one plant
	A	82	منو	18	b -16	87	75
æ	В	75	-	25	grad .	53	50
	and the state of t	ally processor was a management	en 1944 1944	a filters that does were at the second at shatted and		***	r jimarasa, na kare

## INTERPRETATION

building and 13 per cont have mixed typ of building. No institution of either datagory mayor kacha to condity of building. 87 per cent institutions of the entegory of building and 75 per cent institutions have as so rooms, leboratories and office situated at one place and remaining 12 per cent institutions have buildings and 25 per cent have mixed typ: building. 53 per cent undidings and 25 per cent have mixed typ: building. 53 per cent undiding of the category B have planned building, out of which 50 per cent institutions have classrooms, laboratory and office situated at one place and 3 per cent institutions have building divided into two perts.

7. The information regarding (vailability of dispensary, library, laboratory, science-room, stoff-room, auditorium, atuda hall, room for manual work, garden, cantook, play-ground and common room was collected through item No. 18 of the checklist. The findings are summarised in Table 3.8.

# PHYSICAL FACILITIES IN THE INSTITUTION

1 T I I	ໝ	ች፣	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Catagory
1 1	ī	18	4	Dispen- srry
}   	0',	100	¢	Libre- Fy
1	94	100	t	Lebo- retor;
 	78	82	# # * !	Science room
l l l	70	78	, ;	Staff
 		18		<pre>fudito~ study rium hell</pre>
i i	12	23		
	b	ω (2)	1	Creft room
	25	18	i ·	Carden
	25	ហ	1 .	Centeon
	78	65		Creft Garden Caitean ground room
	25	23		Pley Common
	رر	88 22		Tavatory

## INTERPRETATION

and laboratory, 82 per cent institutions have science room, 78 per cent have staffroom, 18 per cent have suditorium, 23 per cent institutions have study hall and craftroom, 18 per cent have garden, 35 per cent have ranteen, 65 per cent have playaground, 23 per cent have commonroom and 32 per cent institutions have lavatory. On the other hand, institutions of the category B have no dispensary facility, 70 per cent institutions have library and staffroom facility, 94 perce , never labor, cory, 78 per cent have science room and playaground. 12 per cent have study hall and craft room, 25 per cent have derden, canteen and common room and 60 per cent institutions of the category have lavatory.

8. The information regarding the series office for the head end the clerk, was collected through . . No.19 of the checklist. The results are tabulated as under in Table 3.9.

TABLE 3.

## OFFICES IN THE INSTITUTION

Catagory	Percentage of institution which have separate office for the				
*	Head	Clerk			
# · · · · · · · · · · · · · · · · ·	department to the state of the same of the same	التقاري والمراجع المراجع المرا			
I.	100	76			
₿	100	67			

## INTERPRETATION

100 per cent institutions of the Category A, have office for the heads and 76 per cent for the clark. Again 100, institutions of the category B have office for the head but only 67 per cent have office for the clarks

9. The information regarding the white-washing the school building was collected through items 20 and 21 of the chack-list. The results are summarized as under in Table 3.10.

## TABLE 3.10

## WHITEW/SHING IN THE INSTITUTION

Category	Percentage of Instit Echool building is White washed	Frequency	of white w	eshing ot fixed
سند جم مستماميس دهايي بدهايسم	وسيسا المراجعة المراجعة المستمومة المراجعة المستمينة المراجعة المستمينة المستمينة المستمينة المستمينة المستمينة	والمراجع والمراجع المراجع المر		. The filler little to an existing or printing to be a second of the sec
Z.	100	-	63	37
В	100	an and	66	34

## INTERPRET: TION

provision of white-washing the school building. 63 per cent institutions of the category 1, get their buildings annually white-washed and the period of white washing of the building of 37 per cent institutions is not fixed. The building of 66 per cent institutions of the category B is white washed annually and the period of whitewashing of 34 per cent institutions is not fixed.

10. The information regarding drinking water facility in the institution was collected through item 22 and 23 of the check-list. The results are summarised as under in Table 3.11.

## TABLE 3.11

## DRINKING WATER FACILITIES

Catagory	Pricentage of insti- which provide drinking water facility	SboM	of drink Pitchers		
<b>A</b>	100	~	-	56	4 <b>4</b>
B		-	-	50	50

## INTERPRETATION

100 per cent institutions of both the detegraties A & B provide drinking water facility. In the institution of the datagory A 56% institutions provide this facility by tanks and 44 per cent by water taps whereas 50% institutions of the Category B provide drinking water facility by tanks and 50 per cent by water taps. No institution of the either datagory provides drinking water facility by cooler and pitchers.

11. The information regarding electric lighting arrangement was collected through items 24 and 25 of the check-list. The results are summarized as under in Table 3,12,

TABLE 3.12
ELECTRIC LIGHTING ARRANGEMENT

Catagory	Percentage Electric lighting arrangement	of instit Electric Clark's Office	utions which h lighting arran Head's Office	eve gement in Every classroom	
A	87	85	87	50	
В	75	62	7.,	13	

## INTERPLETATION

87 per cent institutions of the category A have electric lighting arrangement. This arrangement exists in Clerk's as well as in head's office but only 50 per cent institutions of this category have electric arrangement for every class-room whereas 75 per cent institutions of the category B have electric arrangement and all have this arrangement in head's office. 62 per cent institutions have electric arrangement in clerk's office but only 13 per cent of institution of this category have electric arrangement in every class-room.

12. The information regarding heating arrangement in winter was collected through items 26 and 27 of the Chacklist. The results are summarized as under in table 3,13.

## TADWE 5,13

## HEATING No. IL IMENTS

Catagory	Fercenc Heating facility in winter	ega of inst <u>Moda ( )</u> Electri Heatana	irutiong v rationg v rat rvectors	Travood	Corl
	THE SALE THE ALL THE SALE THAT	THE DI NEW AND ASSESSED IN	* *	n decrees a group that a learness	
F.	56	31	Jan.	_	25
В	38	25	bo 4	N/a	13

## INTERPRETATION

56 per cent institutions of the Category 7 have heating arrangement in winter out of which 31 per cent get it through electric heaters and 25 per cent through coal. Only 38 per cent institutions of the Category B have heating arrangement, out of which 25 per cent have this arrangement through electric heaters and 13 per cent through coal.

13. The information regarding for facility was collected through items 28 & 29 of the chicklist. The results are summarized as under in Table 3.14.

## T/2FT 5,14

## FAN F. L.LTY

Catagory .	Parcentage of insti- Fan facility during summer	Pan facility in avery room
		A STATE OF THE PARTY OF THE PAR
J.	87	31
В	75	13

## INTERPRET! TION

87 per cent institutions of the Category? provide fan facility in summer and 31 per cent institutions provide this facility in every room whereas 75 per cent institutions of the category B have fan facility in summer and 13 per cent institutions of this category provide fan facility in every room.

14. The information regarding classrooms and sections was 31 collected through items 30/2 nd 38. The results are tabulated as under in table 3.15.

TABLE 3, 15
CLASS\_ROOMS

Catagory	/verage number of class-rooms	/verage size of class-rooms	Parcentage of institutions in which classrooms are ventilated
7.	17	18'x16'	87
В	21	19'x19'	75

## INTERPRETATION

I varage number of class-rooms in the institutions of the Category I is 17 which are with an average size of 18'x16', whereas the average number of class-rooms of the Category B is 21 with an average size of 19'x19'. It may further be mantione that 87 per cent institutions of the Category I have satisfactory ventilation, whereas Category B has ventilation only in 75 per cent institutions.

15. The information regarding the provision of making sections was collected through items 32 to 37 of the check-list. The results are summarised as under in Table 3.16 & 3.17.

TABLE 3.16

## PROVISION OF MAKING SECTIONS

	Percentage	⊃£ lnst	itutı:	ns in which		
Category	Classes are	Classe	s are	segregated	on the h	asis of
	arvided Titol	Merit	Sex	Chronolo-	Rando-	Alter
	sections			gical Age		natively
the party description of a section		- markethar - promother de-		property to the same of the contract of	to management of malane	ويها والمهامين الدوائية والدوائية المدامية
A	88	13	6		60	
		2.0	O	-	69	~
В	75	25		_	5.0	
			·	P	50	-
	_					

## TABLE 3.17

NUMBER OF STUDENTS SECTIONWISE AND PROVISION OF SEPARATE ROOM FOR EACH SECTION

Category	Average number of sections mad	Average number o e student	E in w	entage nich cl	of inst	titutions are heldin
gett desperament and set the University	of a class	in one section	Sep- erate rooms	Halls	Vera- ndha	Open space
A	3	52	82	6	6	6
В	2	56	38	12	12	36

## INTERPRETATION

In 88 per cent institutions of the Category A and 75 per cent institutions of the Category B classes are divided into sections. 13 per cent institutions of the category A divide classes on the basis of merit, 6 per cent on the basis of sex and 69 per cent institution of this category segregate classes randomly. 25 per cent institutions of the Category B make sections on the basis of merit and 50 per cent divide classes randomly.

Average number of sections made of a class in the institutions of the Category A is 3 and average number of students in one section is 52. On the other hand in the institutions of the category B, the average number of sections made of a class is 2 with average number of 56 students in one

section. In 82 per cent institutions of the category A, every section has got a separate room and in 18 per cent institution of this category classes are conducted in hall (6%), Varanda(6%), and in open (6%), whereas in only 38 per cent institutions of the category E every section has got a separate room and 12 per cent institutions of this category conduct classes in hall, 12 per cent in Varandah and 38 per cent institutions in open.

16. The information regarding facility of hardwares in the institutions was collected through items 39 to 47. The results are summarized as under in Tables 3.18 & 3.19.

TABLE 3.18
HARDWARES

	Percentage	of Institut	ions which ha	ve	
Category	Notice Notice	Black	Black E	pards	
	Board	Board	Fixed	Movable	
144	esareteriorens y tre take - a.n jopiaja soj	and the same of th	and the manufacture is approximately that the second	Marting and the state of the st	
A	94	100	· 75	25	
B	87	100	62	38	

TABLE 3.19

NUMBER OF CHAIRS AND DESKS

	Average Numb	er of		
Category	Chairs in the staffroom	Chairs in Conflice es	chairs in ach class— room	Desks in a classroom
الله المستوار بوسور المستوار بوسور المستوار ما القد المستوار	ally and a parameter of the state of the sta	- The same of the	- Mary - Main tribility (commit and signals or	The to the second of the party facts described by
A	16	15	1	26
В	15	14	1	24

## INTERPRETATION

94 per cent of the institutions of the Category A and 87 per cent institutions of the Category B have notice boards.

100 per cent institutions of both categories have black-boards out of which 75 per cent institutions of the category A have fixed black-board and 25 per cent have 'movable black-boards whereas 62 per cent institutions in category B have fixed black boards and 38 per cent institutions have movable black-boards.

Average number of chairs in the institutions of the Category P in the staff-room is 16. On the other hand, there are 15 chairs in the staff-room of the institutions of the Category B. The institutions of the category P have 15 chairs in the office whereas there are 14 chairs in the institution of the Category B in the office. The average number of desks in a class-room in the institutions of the Category A is 26 whereas it is 24 in the class-room of the institutions of the Category B.

16. The information regarding maintanance and chacking of school records was gathered through items 48, 49 & 50 of the checklist. The results are summarised as under in Tables 3.20, 3.21 and 3.22.

TABLE 3,20

# MAINTE ANCE OF SCHOOL RECORDS

Category		1 1 1 1	ත	<b>⊅</b>	Cetegory	
Account Books			100	100	Register of edmission & withdrawel or students	ט
Parcantaga of I		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 1 100	100 ; 100	Register of Attendence A Diery edmission & weekly withdrawal of TeacherStudents	rountaring of Inetitutions
Institutions wh	<u>T;</u> MAINTENANCE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25 100	87 100	1	ntions which have
Institutions which heve file for each File	TABLE 3,21 MAINTENANCE OF SCHOOL RECORDS	1 1 1 1 1 1 1 1 1	62	100	of A copy of current educational programmes	עק
T. Sech—File fo	ix	1 1	75	94	A copy of progress sel records students	
for purchases	•	† 1 1	60	81	Secrecy Books	
ັ້ນ		1 1	25	56	Punish- ment Book	
		1			1 .	4

W

## INTERFRETATION

100 per cent institutions of the Category 1 & B have a registur of admissi m and withdrawal of students, attendar register for students and teachers, account books and file for each staff member. 100 por cent institutions of the Catugory / have a copy of syllabus and a copy of current educational programmes, 94 per cent institution have a copy of progress record of students, 81 per cent have secrecy backs, 56 per cent have punishment books, 19 per cent have file for students and 100 par cent have file for purchases. On the other hand, 100 per cent institutions of the category B have a copy of syllabus, 62 per cent have a copy of current equestional programmes, 75 par cent have a copy of record of progress of students, 60 per cent have secrecy books, 25 per cent have punishment books and no institution of this catagory keaps file for each students. 70 per cent institutions of the Catagory B have file for purchases.

TABLE 3,22

## CHECKING OF SCHOOL RECORDS

		F-rear	itage of	instit	<u>utions in</u>	which	
Cata	egory '	records	mco ers	plete		are chacked gularly	
		ara i monaregia, ne a		· · ·			منصور ال جيهومات
· , /*	A		94			87	
	В		94			75	

## INTERPRETATION

94 per cent institutions of the category # and B have complete records. In 87 per cent institutions of the category A and 75 per cent institutions of the Category E record are checked regularly.

17. The information regarding teaching aids was collect d through items 51,52 and 53 of the checklist. The findings is tabulated as under in Table 3.23:

## TABLE 3,23 TEACHING AIDS

Catagory	Percentage in which mode are used as	e of institution ls In which models are		have	anagement < and it follows was via sort for
	teaching aids	in working order	Maps	Globe	Charts
	e en proper production to the	er skal in, gener gjirk, skallig mini, genera, indi b	***********	AND ARMA VARIABLE VARIABLES AND SEED I TO	र जन्म के लग । ३५
Ą	95	6 <b>5</b>	88	100	100
В	87	50	65	100	100

## INTERPRETATION,

per cent institutions of the Category & and &7 per cent institutions of the Category & use models as teached aids. All the schools in both the category use charts and globe as teaching aids. In 65 per cent institutions of the Category &, and 50% institutions of the Category & models ar working order. 88 per cent institutions of category & and 65 per cent institutions of category & and category & and one of teaching aids.

18. Information regarding cocurricular activities, their frequency, participation of teachers in these activities and prizes to the students was gathered through items 54 to 59 of the checklist. The data has been tabulated in Tables 3.24 to 3.26 as under.

## COCLERICLLAR ACTIVITIES

			, Y	!	FT.	₩.	1	Categ	
Ð	Category	של אל של היים וליים ו היים וליים ולי	Cetegory	, , , , , , , , , , , , , , , , , , , ,	ω	eur.		jory	
				1	80	100		Debete	
100	icipat taka cular	1 1 ·	ercenteg	3 4 6 1 A 3 A 4 A 3 A 4 A 3 A 4 A 4 A 4 A 4 A 4	ĭ	1		P Declamation contests	
	4 1 10 H		of Insti	1 . 1	80	80		Plays	
ð	. red fad cueris,	4:11	OF ORGANI	. 1 . 1	20	20	*** 7. 1. 1.	Cuiz Competit	l . 16
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40	Student urriculatinstitus E.Institus Rewards Frizes	1	WERICULA WERICULA Such act	<b>(</b>	40	80	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	which c Dan e	
	and Actions Pos	40 60	ACTIVITIANG YEARLY	1 ,	ı	1		cyanise symposi- um	
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## INTERPRETATION

the Category & organise debates and science fairs, 80 per cint institutions organise plays, dances, painting competitions encathletics, 20 per cent institutions organise music competitions symposium and quiz programmes, whereas 80 per cent institutions of the Category B, organise debates, plays and athletics, 60 per cent institutions organise painting competitions and science fairs, 40 per cent institutions organise dances and 20 per cent institutions organise symposium and plays. No institution under study of the category & or B, organise declamation and poetic symposiums.

Table 3.25 shows that 40 per cent institutions of the Category A organise such activities monthly, 40 per dent organise half yearly, 20 per cent institutions organise such activities on specific days, whereas in Category B, 60 per organise such activities half yearly and 40 per cent on some specific days. No institution under study of the Category or B organise such activities weekly.

Table 3.26 shows that in 100 per cent institutions of the Category A teachers take part in such activities. On the other hand in 60 per cent institutions of the Category B teachers take part in such activities. In 60 per cent institutions of the Category A, students get rewards out of which in 40 per cent institutions prizes are given and in 20 per cent institutions position of honours is given to the students, in whereas/20 per cent institutions of the Category B, students get rewards in the form of prizes. 80 per cent institutions the Category A provide library facility for debates, whereas 60 per cent institutions of the Category B provide library facility for debates. 19) Information regarding provision of a education 4 collected through the items 60 to 64 of checklist has been organised in Table 3.26.

TABL: 3.27

## PROVISION OF MORAL ADUCATION

田	т,	Catagory
80	100	Catagory Provision of <u>Moral aducation is given in</u> givingmoral Morning Class General House aducation Assembly rooms meetings Meetings
60	100	Morring Morning Assembly
20	t	educati Class rooms
1	1	Morel education is given in Morning Class General House Assembly rooms meetings Meet:
î	1	n is given in General House meetings Meetings
40	60	
40	20	education is g Teacher in Some rotation outs
1	20	Horel education is given by Teacher in Some and rotation outsider
80	80	Students Moral perticipation education moral edu- tion cation lessons given is effective
80	100	- Morel education is given Students Morel by participation education THe Teacher in Some in moral edu- tion Head rotation outsider cation lessons given is effective

that diregory moral education lessons are givin in no norg assembly and in 20 per oing invalantions those and by come outsider in 20 per cant institutions. On the other hand, 80 per cent institutions of given ly the teachers in 20 per cent institutions, by th. head of the institution in 60 per cent institutwons students. In all these institutions moral aducation lessins are given in morning assembly. These lessons in molection in mest of 40 par cent institution. lessins are given in the classatoma. This knowledga is given by the head in all for dett and by teadheits Catagor. B have provisions for providing moral aducation to the atudents. In 60 per cant institutions of INTERPHETATION :- 100 porcent institutions of the Catagory & have provision of giving moral aducation to

couleard in Pab. : . Lie , sid wis bisd of sil distributions first that that the distribution is affortive. Whis and born of the bisk of the days as the first of the born ಪರಿಗಳಿಸುವ ಸಂಸರ್ಕ ಕಾರ್ಡಿಸುವ ಸಂಸರ್ಕ ಸಂಸರ್ಕ ಸಂಸರ್ಕ ಸಂಸರ್ಕ ಸಂಸರ್ಕ ಸಂಸರ್ಕ ಸಂಸರ್ಕ ಸಂಸರ್ಕ ಸಂಸರಕ ಸರ್ಕ ನಿರ್ವಾಸ ನಿರ್ವಹ ನ

FEBLE 3, 28

CELEBRATION OF IMPORTANT DAYS

tage of Institutions which celebrate following days:

	i i			40		1 1 4 1 1	09	40	dey dey dey udy	l I
L	ι	, , , , , , , , , , , , , , , , , , ,	1	ı	09	l	ı	ì	09	
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the Regulationary and 60 per over institutions calabratory of indican's day and reflects day. To indicate or ead described ton or by or best tour touring the formulandance of the testion or because with the formulation of the section of the formulation and Nother's day. 60 par cent institutions of this Category colebrate sports day and 40 par cent institun tions calebrate Teacher's day and Flag day, whereas 100 yer cent institutions of the Catagory & celebrate direspectation:- 100 per cent institutions of the Cetajory & colebrate the Republic day, children's day scimer ivedi.

# Scotinn-II: Analysis of Schodule Responses regarding /dministrative Style of Heads of Schools.

The information run rding administrative style of the head of the institution was collected through the schedule. The regime injurit each item were counted and tabulated in  $0.2 \times 2$  contingency table.  $0.3 \times 2$  of independence was calculated to test the significance of difference in the administrative styles of the heads of the schools showing consistently above average results (category 1) and below average results (category 1). Responses were categorized y  $0.3 \times 10^{-10}$ . The formula applied and procedure adopted is shown as such:

	<u>Respo</u>	nses	
Category _	298	сЙ	Total
P.	(a)	(b)	a + b
В	(c)	(d)	c + d
-	and on the test of the test pro-	# 100 to 100	
	(a + c)	(b + d)	N
$x^2 = N$	ed - bc		
	(a+b) (c-	td) (arc	) (b+d)

The values for expected frequencies were calculated for all the items separately. This formula is used when frequencies are small and df is 1. Rate's correction for continuity has been applied.

The frequencies against various items and value of  $X^2$  and its significance level is shown in Table 3.29.

TABLE 3.29

RESPONSES OF HELLS REGIRDLIG THELK FOMINISTRATIVE STYLE

alter transport and the	The track of the many regions the track of t	Cata	ory A	Ĉat	gory	~	· · · · ·
Itam		Yos		7:5	ב	Sign	1f to 05_1_2_
1.	Makes ideas clear to the staff	12	<u>.</u>	9	0	1.13	n.Ł.
2.	Discusses now id. as with the staff	13	3	8	1	1.14	n.e.
3.	Ask the staff members to follow standard rules and regulations	12	4	9	0	1.13	n,2,
4.	Maintain dafinita standards of parformanca	14	2	7	2	0.005	n,s,
5.	See that staff members are winking upto full capacity	13	3	8	1	1.14	n.s,
6.	issign perticular task to particular staff mamber	13	-	~	1	1.14	n.s,
7.	Make personal favour to any of the staff members	3	1.3	3	6	0.02	n.s.
8.	Find time to listen patiently to the problems of the staff.	13	3	8	1	1.14	n,s,
9.	Take personal interest in the problems of the staff	12	4	8	1	0.12	π.ε,
3	Help the staff members to settle minor differences	13	3	7	1	1,14	n,s
-	Work without consulting the staff	2	A	٦	7	0.05	n.s.
12	Make all class scheduling decisions themselves	2	·14	0	9	0.05	n.s.
1.3.	Make sure that their past in the organisation is unders rod by and staff members	13	3	c	1	1,14	n.s.
14,	Daily establish contact almost with all teachers	12	4	9	0	1.13	n,s.
15	Communication between heads and teachers is open, friently and	14 _m	2	7	2	1.14	n.s.
<sup>1</sup> 6	Humble in dealing with studiate and teachers	<b>1</b> 5	1		3	1.45	n.s.
17	Enthusiastic in informing the staff the policies and regulation of school system	ns 13	3	8	1	1.14	n Ş
18	Put suggestions in operation put by staff members	16	3	. 9	0	0.00	n s
19	Welcome students' views in staff meetings	14	า	7	2	0.05	n s

Tram	o de de licalita	<u>Uriusqui</u>	Y 12	Cate	gory I		 
. СИ		Yes	сИ	zeY	си	$x^2$	.05 l l
20.	Respect the dignity of others	,13	3	8 ,	,1 ,	1,14	n,
21.	Make provision for improving staff compatencies	€ 13	3	7	2	0.013	դ_։
22.	Encourty, staff members to lear	7	č¹	6,	3	0.87	ព೯
23.	Encourage staff mambers to devolop interest in their inve improvement	**************************************	2	7	2	1,14	n.
24.		3 14 V	2	7	2	1.14	٦
25.	Explain reasons for criticising	· ** 15	1	5	4	3,63	n.s.
	students	第5.1	2	6	3	0.63	α.ε.
27.	Explain reasons for criticising the poor work of the students	14	2	, 5	4	2,30	a.s.
28.	Caralla and an	14	2	7	2	0.005	n <sub>e</sub> s
29	Inspect the institution	16	0	↓ . 9	0	0.00	II.E
	Organise faculty maetings	16	0	7	2	0.06	$n_* r_*$
31.	Themsolves maintain school reco	rds 10	6	б	, ,	0.09	n.L
32.	Clarks maintain school records	6	10	3	6	0.06	a
33.	Sand budgat proposals	13	3	8	1	1.14	îl.f.,
34.	Satisfied with provisions for budgeting	13	3	6	3	0.02	i ale
35.	Chack the budget of the institution regularly	16	0	8,	1	0.04	n E.
36.	Utilize the funds given by the government properly	16	0	7 <sup>''</sup>	2 -	0.32	n,s,
37.	Themsolves propers the estimate of expanditure for doming year	es 16	0	5	4	5,48	Sig at
38,	Invite the parents of the students in the institution	<b>1</b> 6 , ;	0	7	2.	0,32	.05 1: :1
39.	Grants received by institutions per year	Min.	4	iax'.		Max,	- 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 194
40.	Revenue of the school per year	<del>4</del> ,000 400	- '	10,000. L0,000	2,000. 500	•	
41,	Expenditure on building, library and laboratory per year	· · · · · · · · · · · · · · · · · · ·	í	20,000	1 <sup>3</sup> ·	15,00	00
,		For the bi Management			-	·	

#### Section III

This section relates to study of views of Heads of the selected institutions regarding factors affecting good/bad results in the schools showing consistently above average and below average results for the last five years in the matriculation examination conducted by OSK Board of School Education. The investigators employed Thurstone's Incomplete Rank Order Views of heads working in these schools are calculated on the 15 fectors given below in Table 3.30:

## TABLE 3,30

rotors effecting consistently above average and blow everage results as viewed by Heads of the Cohools

three difference 12 trials for each fire falls	* chr * ca. \$ Ga. * da. * ca.
	Description
tad 9 may 7 man 9 and 4 april	4 m 9 gg \$ 25 5 6 m 9 m 9 m 9 m 9 m 9 m 9 m 9 m 4 m 4 m 4
W. N <sup>C</sup> A	Teacher's qualification
В	Teachers general ability
С	Teachers fund of knowledge
۔ م	Teachers expression
£	Teachers style of dealing with children
ਜ਼ੌਾ	Seriosness among students
G	Students of aducated parents
Ħ	Students belonging to rich families
I	Ability of students
J	Institutional environment
¥.	Effictive 1 addestip of head of institution
Ľ	Locality of schoo
Ĺv'	Egonomic condition of school
ľN	Bullding
J	Saulonent

given to the factor which they considered as most important in influencing the results of the school. Likewise ranks 4,3,2,1 Were given. Hedds were requested to renk five most importent fectors in order of preference. Rank 5 was

The responses were tabulated and transformed into frequencies as showh in Tables 3.31 and 3.32.

TABLE 3.31

	FREQUENCIES OF FACTORS AFFECTING.	
	Š	
,	FACTORS	
	AFFECTING .	•
FACTORS	KESULTS OF S	
	רבי.	

KESULIS OF SCHOOLS SHOWING ABOVE AVERAGE RESULIS

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9	₩.	N	<del>[/</del>	2	سر		Cı }
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0	N	2	Ŋ	4	ω	1	    
12	2	0	قبإ	0	حر	1	C.1 *
15	0	0		0	با		× .
15	0	0	<b>⊢</b>	0	•	•	۲:
16	0	0		0	Ð	1	13:
13	0	0	O	N	ب		× !
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TABLE 3,32

FREQUENCIES OF FACTORS LFFECTING RESULTS OF SCHOOLS SHOWING EELOW

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•	46		Н	0	Н	•	٠ -	ı ı	
	Ranks	į	ĸ	4	(M)	, ,	1 <del>-</del>	4 O,	

Fraquency Distribution was converted into Matrix by dividing sach call antrias by the total and and sum of the columns drawn at the base of the watrix as given in Table 3,33:

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TABLE 3.33

PROFONTION MATRIX OF FACTOR S AFFECTING RESULTS OF SCHOOLS SHOWING. ABOVE AVERAGE RESULTS

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10.09	. 62 . 84	.82	80		.70 .76	. 68	.54	. 60	
7,43	. 56	.63	.5 <sub>4</sub>		. 49 . 57	. 50	.33	. 48 . 42 . 46	
7.48 7	.57	. 65	.63		50	.59	.34 .30	. 50 . 40 . 46	G
6.29 11	. 59	.56 .59	. 56	•09	. 41 . 50	• 43	25 4	. 40 . 33	i m
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From the Motels of the columns shown in Table 3.33.

TABLE 3.34

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<b>⊒</b> ;_		47	. 5	50	.56	5.4	. 59	, 62	.65	., 65	. 68	.71	80	. 80	ο.
4 þ	•	47	₹ 7	44	.50	.51	. 53	.57	59	. 59	.63	.67	.75	.76	•
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"50 was substricted from sech cell velue. The resultent metrix is given below in Table 3.35

THE RESULTANT MATRIX OF SCHOOLS SHOWING AVERAGE RESULTS.

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00	<b>.</b> 19	.21	_21	* 3 <b>1</b>	. 31	. 38	• 35	, ω <b>υ</b>	· 41	• 41 ·	* 44	. 47	. 50	.50	1. 1. 1. 1	Η.
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Tr. 31 3, 36

Z MATRIX OF SCHOOLS SHOWING ABOVE IVERS GE RESULTS

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6 R T

The frequency distribution was converted into Matrix by dividing each analogous, anrable 3.32by the total and sum of the columns drawn at the base of the Matrix as fiven in Table 3.37

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inom the tetals of to columns on Tables 3.37, the Table was erranged recording to the escending order of the columns in Table 3.37.

TABLE 3,38

PROPORTION NITRIX OF FRACTOFS IFFECTING RESULTS OF SCHOOLS SHOWING ENCORNING

.5. Wes substracted from sech call valua Resultent matrix is given below in rapla 3.39

RISULTERT MATRIX OF SCHOOLS SHOWING BELOW AVERAGE RESULTS

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43	37	23	22	17	<b></b> 12	1,00	1.06	. 1.06	.00	\$ Ü •	ή, Ο	05	. 11	. 11	: : :
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<sup>ng</sup> ∎39	1.32	· 25	<b></b> 20	-, 15	-, v9	<b>.</b>	()	.01	6ن‡	.10	<b>.</b> 10	. 10	. 17	. 17	; ;
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09	-00	•00	. 16	. 22	. 26	. 29	.27	-32	33	<b>.</b> 36	• 36	. 37	55.	<del>7</del> 5.	; H
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					Z M.TRIX	FIO.	SCHOOLS	SHOWING	BELOW 7	I VERIGE I	RESULTS			
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0000	0000	. 7510	1257	.1257	.2793	4399	4399	-4399	.5828	.7922	.9542	1,2265	1.5548	3,2905
0000.		. 1510	.1257	.1257	.2793	6687.	4399	6655.	.5828	.7722	.9542	1,2265	1,5548	3,2905
1257 -	1257	0000	C000*	3000	.1257	,2533	,2533	.2533	. 3853	.7722	.7063	.9154	1.1264	1. 1757
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. 6	2793	1	-, 1257	, 0000°	100g.	0000	.1513	,2275	.3055	6685	.6128	.6745	1,0803	1,3408
	. 4399	-, 2533	2533	1257	-,151,	0000.	.0251	,151	.1764	3853	.5828	.6433	.9542	1,2263
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	4399	2533	2533	2533	1590	0251	1510		1257	.2793	.5244	.5534	.8064	1.0803
. 00	5828		-,3853	-,3853	-, 3055	1764	1275	-,1257	0000	.1510	6665.	.5244	.7388	.9542
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_	9542	5745	5244	7563	5828	-,5244	5244	- 4399	-,553-	1764	3000.	.1764	4125	.4125
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£472 .7743

TABLE SETEMAN (6915 IN EACH CASE) 1,9332 (190) .88801,0797 1.2387 1.4653 (.89) (1.18) (1.24) (1.47) 3 ,5½ ; ,6027 ,6848 (.56) (.69) ,4174 ,5293 (,42) (,53) ( .j.j. .uCjū (.es) (.us)

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MELN -.6915 -.6915

## TABLE 3.41

DIFFERENCES IN SCALE POSITIONS OF HEADS VIEWS REGARDING FACTORS AFFECTING RESULTS IN SCHOOLS SHOWING ABOVE AVERAGE RESULTS.

Sr. No.	Factors	Diff	erance in a position
1.	Institutional Environment	J	1.45
2.	Adaquata Equipments	0	U • 47
3.	Locality of Schools viz. Urban/ Rural	L	0,42
<u>4</u> 0	Teacher's Fund of Knowledge	С	0.33
5.	Seriousness among students	F	0.32
6.	Teacher's General Ability	В	0,26
7,	Teacher's Expression	D	0,22
8.	Effective Leadership of Head	K	0.21
9.	Students of Educated Parents	G	0.17
10.	Building	N	0.10
11.	Teacher's Qualifications	<i>Į</i> .,	80.0
12.	Ability of Students	I	Ე₊05
13.	Teacher's style of dealing with Child	E	0.01
14,	Students belonging to rich familia	s H	O.O1
15.	Economic condition of school	M	0.00
-,~,	ا چين چين چين چين چين چين چين چين چين چين		_ yaka _ dang _ agan _ ayak _ khi _ ann _ ar

RELIABILITY OF THE DIFFERENCES OF THE PROPORTIONS OF VIEWS OF HEIDS REGIRDING FICTORS IFFECTING RESULTS IN SCHOOLS SHOWING ABOVE IVERIGE AND BELOW AVERIGE RESULTS:

For finding the significance of the above differences; is essential that we find standard error of the different proportions.

Computations for (Standard error of the proportions, for each problem was done with the help of the formula given below:-

$$\sigma_{P} = \sqrt{\frac{Pq}{N}}$$

p =Proportion of occurrence of bahaviour

$$q = 1 - P$$

N = Number of cases

The investigater computed the standard error of diffe, a of proportion ( odp ) with the help of formula given below:

of the difference of the proportions

 $\mathbf{P}_1$  = standard arror of the proportion of Ist group and  $\mathbf{P}_2$  = standard arror of the proportion of 2nd group.

For calculating the critical ratio, the researcher employed the formula which is given below:

 $CR = \frac{P_1 - P_2}{\sqrt{dP}}$  whereas  $P_1 - P_2 = Difference of the proportions of the head's views regarding factors affecting results in two groups.$ 

The values of critical ratio of the heads' views regarding factors affecting results working in schools showing above average and below average results are given in the Table 3.42 alongwith other values which have been computed for critical ratios.

#### TABLC 3.42

SIGNIFICANCE OF DIFFERENCES BETWEEN THE VIEWS OF HEADS WORKIN IN SCHOOLS SHOWING ABOVE / VER/GE AND BELOW / VER/GE RESULTS

Proportions of Hads of schools showing

Above Below Average Average results results

	results	results	5	ත්					
					1 91			P12P	C.F.
									-,-,-,
Teach∋rs qualifica	.51 ction	.51	<b>.</b> 49	. 49	.0999	.0999	.1407	0.60	0.00
Teachers General A	bility							. 15	17
Teachers Fund of knowledge		.38	<b>.</b> 46	.62	,)997	.0971	.1390	.16	1.15
Teachers expressio	.66 n	. 69	.34	.31	.0947	.0925	.1324	03	Q.23
Teachers	styla								
of dealin	ng 167	.64	• 33 ·	.36	.C940	.0960	.1342	03	0,27
Sariousna among stu		<b>.</b> 57	.51	,43	. 1999	.0990	.1404	.08	Q.57
Students Educated		. 4.1	<b>"</b> 5∪	<b>.</b> 59	.1000	.0984	.1403	3 409	Ů.6.
Students belonging rich femi	j to	.38	<b>.</b> 58	.62	.0987	.0971	.1383	.04	0.29
Ability of Students		.72	. 17	<b>.</b> 28	.0751	.0898	.1169	.11	0.94
lnstituti	ional								
environma	ent .45	-		-					
Effactiva leadershi Principa: master	ip of	.3∪	.63	.7∪	,0966	.0916	.133	.07	ე.53
Locality School v: Urban-Ru	iz.	. 40	.64	.60	.0960	.0979	.1370	0 •04	0.29
Economic condition School	.33 ns <sub>,</sub> of	.30	.67	<b>. 7</b> 0	,0940	<b>.</b> 3916	.131.	1 .03	0.23
Building	44	.37	<b>.</b> 56	,63	.0993	.0996	.140	6 .07	0.5
#doquate Equipmen		. 45	.66	.55	.0947	.0995	.137	3 .11	0.87

Significant at .01 levol of significanca.

#### Section Four:

This section is further split into four sub-sections A,B, C and D in which separate type of the analysis is presented. In each of the sub-section, analysis of variance is employed to study mean differences in dependant variable in relation to the treatment variables.

#### 3.4.1 Sub Section A:

Study of Mean Differences of Teaching Competency in Relation to Training and Type of Results:

In this sub section, the objective of the study was to see the significance of differences in the classroom teaching competency of trained and untrained teachers in relation to two types of schools showing consistently above and below averagesults. For this purpose, the researchers utilized two way analysis of variance technique.

There were two levels of training and two levels of results were taken up as follows:

- A<sub>1</sub> stands for Trained Teachers
- A2 stands for Untrained Teachers
- B, stands for schools showing above average results
- B, stands for schools showing below average results,

Thus a 2x2 factorial design was prepared as given  $b \cdot b$ 

- A<sub>1</sub>B<sub>1</sub> Trained Teachers working in schools showing above average results
- A<sub>1</sub>B<sub>2</sub> Trained Teachers working in schools showing below average results
- $^{\rm A}2^{\rm B}1$  Untrained Teachers working in schools showing above average results
- A<sub>2</sub>B<sub>2</sub> Untrained Teachers working in schools showing below average results.

Teaching competency scores of trained and untrained teachers belonging to schools showing above average and below average results were computed separately. However, all scores could not be utilized for calculations as number of observation

in each cell of the factorial design were unequal. So, mean values were calculated for each cell which were utilized as a single value for computing differences in means through analysis of variance. This procedure is utilized for computing the differences in mean scores in all cases viz. sub sections A,B,C and D.

. Further the researchers present only mean scores of different cells of the factorial design along with the summery of Anova in Tables 3.42 to 3.66.

The mean teaching competency scores of trained and untrained teachers belonging to schools showing above average and below average results followed by summary of Anova are shown in Tables 3.43 and 3.44.

#### Table 3.43

Mean teaching competency scores of Trained and Untrained Teachers belonging to schools showing above average and below average results (N = 100)

		Tachers		
		$A_1$ (Trained)	A <sub>2</sub> (Untrained)	2
Above Average Results	<sub>5</sub> 1	102.86	97.68	200.54
Below Average Results	E <sub>2</sub>	78,12	78.91	157.03
		180.98	176.59	357.57

Table 3,44

Summary of ANOVA of Teaching competency scores in relation to Training of Teachers and type of Results

					****
Sources of variation	5.5.		M.S.	F-ratio	Significance
Teachers (A)	4.8	1	4.8	0.19	Insignificant
Schools (B)	473.28	1	473.28	19.09	Significant at .C ' level
Teachers x Schools (AxB)	8.92	1	8,92	0.36	Insignificant
Error	2379.85	96	24.79	-	

## 3,4,2 Sub-Saction(H):

study of rean Differences on Different Areas of Teacher Adjustment in relation to locality, Economic Status and type of Legults:

In this section the investigator dealt with the study of mean differences in the adjustment scores of teachers with respect to locality, economic status (ES) and type of results. Different areas of adjustment viz. Health, Home-Social, Economic Institutional and Ethical were taken up separately. For this purpose the investigator applied three way analysis of varianctechnique. Here two levels of locality i.e. urban and rural, two levels of a economic status included the ballow average were taken. To 2x2x2 factorial design was propered as given below:

- $L_1$  stands for teachers belonging to urban locality
- , stands for teachers belonging to rural locality
- B, stunds for teachers belonging to HES
- $\omega_2$  stands for teachers belonging to LES
- (2 stands for teachers working in schools showing below everage results.

The adjustment scores for five different areas were taken secarately for different levels of independent variables. The three way analysis of variance was computed separately for each of five areas of edjustment. The mean adjustment scores of five areas of righth the results in summary of Anova are presented in Tables 3.45 to 3.54:

## TABLE 3,45

Meen Health Adjustment (Element A) Scores of Teachers in relation to their locality, Economic Status and Type of Results.

Locality	A <sub>1</sub> (t	Jrban)	A <sub>2</sub> (Ru		
Economic E Status	B <sub>1</sub> (H교&) 	B <sub>2</sub> (LCS)		B <sub>2</sub> (LES)	- , m' <sub>a</sub> , , m , n
C <sub>1</sub> (Alove Avirage Results)	25.12	27,00	24.94	23,67	100.73
C <sub>2</sub> (Below everage Results)	24.67	22.40	25.14	23.42	95.63
Σ.	49.79	49.40	50.08	47.09	.196,36

## TABLE 3.46

Summary of Anova on Health Adjustment Scores of Teachers in relation to their Locality, Economic Status and Type of Results.

Sources of Variation		df		F-ratio	Significance at .05 lovil
Locality()	3.2511		3,2511	1,96	n.s.
Dconomic Status (B)	0.5101	1	0.5101	0.31	n.s.
Type of Results( C)	1.4281	1	1.4281	0.86	n.s.
Localityx Economic Status(AxE)	3.1251	1	3.1251	1,86	n.s.
Localityx Type of Results(&xC)	3.5631	1	3,5631	2,15	n.s.
Economic Status x Typa of Results (BxC)	0.8449	1	0,8449	0,51	n.s.
LocalityxEcono Stati xType of Results(AxBxC)	1.6400	1	1.6400	0.199	n.s.
Error 1		92 ••••	1.6600	ا جود الاستان المسائل معادلاً عاملاً المسائل المسائل المسائل المسائل المسائل المسائل المسائل المسائل المسائل ا	-

TABLE 3.47

Mean Values of El ment B (Home-Social) of Adjustman of Teachers in Kelation to Locality, Economic Statu And Types of Results:

	A <sub>1</sub> (Urb	en)			· ·
	(HES) B1-	(LES) B2	(HES) B1	(LES) I	<sup>3</sup> 2.4
(Abova Avaraga Rasults) C <sub>1</sub>	22.36	23.11	24.35	20.22	90,1
(Dalou Augarada					
(Below Average Results) $C_2$	21.33	21.00	23,07	20.17	85,5
				, -, -, -, -, -, -,	
Samuela Samuel	43.69	44.11	47.42	40.39	175.0
-,-,-,-,-,-,-,	~ . ~ . ~				p - s - s -

### TABLE 3.48

Summary showing Analysis of Variance on Element B (Home-Social) of Adjustment of Teachers in relation to locality Economic Ptatus and Type of Results:

Sources of Variation	5,5,	df		Faratios	
A	2.50	1	2.50	1,.9	n.s.
Б	0.00	1	0.00	0.00	n.s.
С	5.46	1	5.46	3,25	n.s.
АхВ	0.41	1	0.41	0.24	n,s.
7 x C	0.003	1	0.003	<b>0.</b> 002	n,s.
ВхС	6.94	1	6.94	4.13	Significant at .05 lavel
АхвхС	0.67	1	0.67	0.40	n.s.
£rror	154.55	92	1.68	-	

n.s. = Not significant at .05 level of Significance

## TABLE 3.49

Mean value of Element C (Economic) of Adjustment of Teachers in Relations to Locality, Economic Status and Type of Results

	(URBAN)		(RURAL)	"	
•	(hES) B <sub>1</sub>	(LES) B <sub>2</sub>	(HES) B <sub>1</sub>	(LES)B <sub>2</sub>	Se car
(Abova Averaga Rosulta) C <sub>1</sub>	20.28	19.11	21,29	17,11	72,75
(Below Average Results) C <sub>2</sub>	17.11	18,20	18.00	16.50	69.81
X.	37.39	37.31	39.29	33.61	147.60

#### TABLE 3.50

Summary showing Analysis of Variance on Element C (Economic) of Adjustment of Teachers in Relation to Locality, Economic Ptatus and Type of Results

	** '				
Sources of Variation	S.5.	d£	M.S.	F-ratio Sig	nificance
ħ	7.96 .	1	7.96	1.48	n,s.
B	0.41	1	0.41	0.076	n,s.
C : .	4.15	:	4. 15	<b>0.77</b>	n.s.
IxB .	0.004	1	0.004	0.0007	n.s.
₽xC	3,05	1	3.05	0.57	n.s.
BxC	3.74	1	3.74	0.70	n.s.
AxExC	0.20	1	0.20	0,04	n.s.
Error 4	94.95	92	5,38		·
		. <b>-</b>	~,~,~,-,-		~ . ~ . ~ . ~

n.s. = Not significant at "O5 level of Significant

#### TABLE 3.51

Mean values of  $\pm$ lement D of Institutional Adjustment of Teachers in Relation to Locality, Economic Status and Type of Results

	(Urban)A <sub>1</sub>		, (Rura)		
•	(HES) B <sub>1</sub>	(LES) B <sub>2</sub>	(HES) B	(LES) B2	*
~, -, -, -, -, -,	, , , , ,	, -, -, -, -, -, -,	, - , - , - , - , - ,		· · · · · · · · · · · · · · · · · · ·
Above Average Result C <sub>1</sub>	21.92	23,67	22,82	17.89	·86,30
Below Average Result C <sub>2</sub>	22,22	20.00	22,57	21.92	86.31
2	44,14	43.67	45.39	39,31	172.51
		, _ , _ , _ , _ , _ , _ , _	, - , - , - , - , - , - , - ,		

## TV. ELE 3,52

Summary showing Analysis of variance of Elements D (Institutional) of Adjustment of Plachers in Relation to Locality, Aconomic Petetus and Typo of Rout

Sources of Variation	S.E.	46	ا الله الله الله الله الله الله الله ال	W-rrt10	Signifi,
7	0.001		0.001	0.001	n,s,
В	1.209	1	1,209	0.67	n,s,
C	5.363	1	5.3+3	2.82	n.s.
/ ×B	5.528	]	5,528	2,91	n.s.
<i>I</i> · <b>x</b> C	0.005	1	t) = (,+) <sup>r</sup> ,	0.002	n.s.
<b>B</b> XC	3.93	l.	3.43	2.07	n.s.
7 x ExC	7,508	1	7.508	3,95	Significant .05 level
Error	174.80	92	1.90		.OO TEAST

n.s. = Not significant at .05 lovel of Significance

#### 12.1.1 3.53

Showing Mean values of all ment : of (sthice) / djustment of Teachers in Relation to Locality, Sectional Status and Type of Results

	(Urban)A	-1	(Eugral) &		
	(HES) 1.1	(1,ਫ5) ਜਾ2	(H2G) H1	$(LES)$ $B_2$	<b>E</b>
		, , , , , ,	~ , ~ , ~ , ~ , ~ . ~ . ~ . ~		,
(/bove Average Result) C <sub>1</sub>	19.76	23, 10	19.82	20.00	81,68
(Below Average Result) C2	20.22	22.20	20.00	20.23	82.65
	39.98		39.82	40.23	164.33

#### TALLE 3.54

Summary of Analysis of Varianc. o. 31.m.nt E (Ethical) of Idjustment of Tarchirs in F. Lation to Locality, Economic State and Type of Results:

THE TYPE OF N.	.au.ca;	والمراجعة والموارية			
Sources of Variation	5,S.	ae	ri.5. F-ri	etio Signifi	
F.	0.146	1	0 hi6 0	.14 n.s.	
В	2.122	1.	2.122 1	.98 n.s.	
C	2,928	· j	2,928 2	.74 n.s.	
<i>i</i> -xB	0.0004	1	0.0004 0	.0004 n.s.	
ΛxC BxC	0.046 1.824	1 1		.042 n.s. .70 n.s.	
ExBxC	0.034	1	0.034 0	032 n.s.	
Error	98.44	92	1.07	-10 -10 -10 -10 -10 -10	

n.s. = Not significant at .05 level of Significance

#### 3.4.3 Sub-Section C:

Study of Mean Differences in Different Areas of Adjustment in Felation to Sex, Type of Results and Competency of Teachers.

In this section, the invistigator dealt with the study of mean differences in different areas of teacher adjustment in relation to sex, type of results and their teaching competency. For this purpose, the investigators employed three way analysis of variance - technique. There were two levels of sex i.e. male and female, two levels of type of results i.e. schools showing above average results and schools showing below average results and two levels of teaching competency i.e. competent and non-competent teachers were taken up. In this way 2x2x2 factorial design was set up as such:

 $h_1$  stands for Male teachers

In stands for Famale teachers

B<sub>1</sub> stands for Schools showing above average results

Bo stands for schools showing below everage results.

. C<sub>1</sub> stands for compatent teachers

C2 stands for non-competent teachers.

The adjustment scores for five different areas were taken separately for different levels of independent variables. The three way analysis of variance was computed separately for each of five areas of adjustment as done in earlier sections. The researchers present only the mean adjustment scores of five areas alongwith the results shown in summary of Anova. The mean adjustment score for each of five areas followed by Summary is shown in Tables 3.55 to 3.64.

#### TABLE 3.55

Mean values of Element / (Health) of / djustment of Teachers in Felation to Sex, Type of Results and Teaching competency,

				COMP	arauch'
	(Male) F	L.	(Fomale)	A	
	(Thove Average Result) B <sub>1</sub>	Average	(Lbove Average Result) B	(Bolow Av. -aga Rasi B <sub>2</sub>	er- ult
(Competent Teachers)C (Non-compe	1 28.83	28,17	29.00	28.67	114,67
Teachers)C	24.40	28.45	28.50	27.67	112.02
	56.23	56.62	57.50	56.34	226.69

## TABLE 3.56

Summary showing Analysis of variance of Element / of Adjustment (Health) in Relation to Sox, Type of Result and Teaching Competency of Teachers:

	- reschars	•			_
Sources of Variation	5.S.	df	M.S.	F-ratio	Significate
P	0.13	1	0.13	1.08	n.s.
В	0.08 0.88	1	0.08	0.67	n.s.
A-x B	0.30		0.88	7.33	Significant at .01 lovel
∫ xC	0.00	1 1	0.3 <sub>0</sub>	2.50	n.s.
B <sub>X</sub> C	0.17	1	0.17	0.00 1.42	n.s. n.s.
I-x BxC	28.55	1	28.55		Significent
Error	10.43	87	0.12	-	at .01 lavel
		- , , ,			

n.s. = Not significant at .05 laval of significance

## TABLE 3.57

Mean values of Element B (Fome-Social) of Adjustment of Teachers in Relation to Sex, Type of Results and Teaching Competency:

	/		, a was was was was was was was was was w			
/ 7	(Male)		(Female) A 2			
Z:	bove verage esult) B <sub>1</sub>	(Below Verage Result) B <sub>2</sub>	(Above Average Result) B <sub>1</sub>	(Below Average Result)B <sub>2</sub>	Z	
(Compatent Teachers)C <sub>1</sub>	25.48	21.60	21.63	23,60	92,31	
(Non- Compatent Teachers)C2	20.17 45.65	21.00 42.60	23.86 45.49	15_80 39_40	80.83 173.14	

#### TABLE 3.58

Summary of Phalysis of Variance of Element B(Home-Social) of Adjustment of Teachers in Welstron to Sex Type of Results and Teaching Competincy

# (1 C - 7 - 1 - 2					
Sources of variation		df	M.S.	F-Ratio	Significance
A	1.42	1	1.42	0.48	n.s.
В	10.44	1	10,44	3,50	n.s.
C	16.47	1	16,47	5.53	Significant
AxB	1.15	1	1.15	0.39	at .05 level n.s.
AxC	0.00	1	0.00	0.00	n.s.
BxC	3.55	1	3,55	1.19	n.s.
/xBxC	27.16	1	27,16	9.11	Significant
Error	259,25	87	2,98	-	et .01 laval

n.s. = Not significant at .05 level of significanc.

#### T/ BL 2 3.59

Mean values of Element C (Economic) of Adjustment of Teachers in Relation to Sex, Type of Results and Teaching Competence

	(Ma)	(M51=) A1		(Female)Ä2		
	(Lbove	(Below	(Fbove	(Balow.	مسييف	
	Zverage					
	Results) B <sub>1</sub>	Results) E <sub>2</sub>	Kesults)	5 <sub>1</sub> Kesult	s) B <sub>2</sub>	
-,-,-,-,-,	-,-,-,-,-	. ~ . ~ . ~ . ~ . ~		<del> </del>	m > m * m * m * m * m * m * m * m * m *	
C <sub>1</sub>						
(Compತtent	21.57	19.00	19,71	20.80	81.08	
Techers)						
C						
(Mon-compa	tant					
Turchers)	8.80	17158	22,25	18.20	66.83	
acconstal					*.=.=.	
***	30.37	36.58	41.96	39.00	147.91	
	30.37					
		4		4 - u #	• • • • • •	

#### TABLE 3,60

Summary showing Analysis of variance of Element C(Economic) of Adjustment of Teachers in Relation to Sex, Type of Result and Teaching Competency.

Sources of variation	s.s.	đ£	M.S. F	_ratios	Significanc:
1	24.54	1 .	24.54	3.62	n.s.
B C łxB	1.32 25.38 10.51	´1 1 1	1,32 25,38 10,51	0.19 3.74 1.55	n.s. n.s. n.s.
ł xC	24.95	1	24.95	3.68	n.s.
BxC	4.82	1	4.82	0.71	n.s.
l-x BxC	33.79	ì	33.79	4:98	Significant
Error	589.88	87	6. 78	egent t	et .05 levul

n.s. = Not significant at 05 level of significance.

#### TALLE 3.61

Mean values of Elim at D(Institutional) of Adjustment of Teach; in Relation to Sex, Type of Results and Tanching Competency:

	(Male)/	.1	(T, 5,1	nol3)∤∠	,
	(7 bov - (	B⊋low	€vod ⅓)	(Bolow	
	fv rege	i varage	Lvelaga		ts)B
	Results) B <sub>1</sub>	kesults) B	, k≥sults)	) E <sub>1</sub>	Z. Zinner
-,-,-,-,-	, -, -,		<u> </u>	. = 3 = 1 = 1 =	
¢ <sub>1</sub> .	•				
(Competāņ <b>t</b>	0.5 0.0	10.00	17,77	21.60	00 35
Taachers)	23.00	18.00	1/.//	21.00	80.37
$C_{2}$					
(Non-comp∂t	ant				
Toachars)	18.00	21.00	22.44	14.20	75.64
-				. – . ~. – . ~	
	41.00	39.00	40.21	35.80	156,01

#### TABLE 3.62

Summary showing Analysis of Variance of Element D(Institutions of Adjustment of Teachers in Relation to Sex, Type of Results and Teaching Competency:

Sources of variation	s.s.	 df	M.S.	F-ratios	Significanc
F.	1,99	1	1.99	1.09	n.s.
В	5.14	1	5.14	2.81	n.s.
C	2.79	1	2.79	1.52	n.s.
F.×B	0.72	1	0.72	0.39	n.s.
LXC	0.06	1	0.06	0.03	n.s.
BxC	2.06	1	2.06	1.13	n.s.
I x BxC	50.24	1	50.24	27.45	Significant at 0.01 leval
Arori		87 significan	1.83 c et .05	lovel of	significanca.

#### TABLE 3,63

Much values of Element E (Ethical) of Adjustment of Teachers: Relation to Sex, Type of Results and Teaching Competency:

				<u></u>	
	(Mgl÷)A1		(remale) A2		
		Below (	Abova Varage	(Below Pverage	B <sub>2</sub>
	, , - , - , - ,				
C <sub>1</sub> (Competent Teachers)	21.00	19.80	19 <b>.</b> 18	18.00	<b>77.</b> 95
C <sub>2</sub> (Non-compet Teachers)	18.40	21,04	18,30	15.17	72.98
2	39.40	40.84	37;48	33.17	150.96

TABLE 3.64

Summary showing Inalysis of Variance of El mant E(Ethical) of Idjustment of Teachers in Felation to Sex, Type of Result and Teaching Compatency

Sources of variation	S,S.	đE	M.S. 9	-ratios	Significane
Ŀ	11.5	1	11.5	5.78	Significent at 0.05 level
F	1.03	1	1.03	0.52	n.s.
С	3.20	1	3.20	1.61	n.s.
7 <b>x</b> B	4.12	1	4.12	2.07	n.s.
7 xC	0.71	1	0.71	0.36	n.s.
ЬхС	0.47	1	0.47	0.24	n.s.
FxBxC	4.17	1	4.17	2.10	n.s.
Error	173.17	87	1.99	-	
-,	·		.,	~ , ~ . ~ . ~ , ~ .	, - , - , - , - , - , - , -

n.s. = Not significant at .05 level of Singificance.

### 3.4.4 Sub-Section D:

Study of Mean Differences in Teaching Competency Scores of Teachers in Relation to their Experience, Eurlification and type of Results:

In this Sub-Section, the investigators dealt with the study of mean differences in competency scores of teachers in relation to their experience, qualification and type of results. For this purpose, the investigators again made use of three way analysis of variance technique. Here, two levels of experience i.e. high experienced and low experienced teachers, two levels of qualification i.e. post-graduate and undergraduate teachers and two types of results i.e. above everage and below average results were taken up. So a 2x2x2 factorial design was prepared as follows:

- $h_{f 1}$  stands for highly experienced teachers
- A2 stands for low experienced teachers .
- B<sub>1</sub> stands for post-graduate teachers
- Bo stands for under-graduate teachers
- C<sub>1</sub> stands for schools showing above average results.
- Co stands for schools showing below average results.

The computations of three way analysis of variance on mean teaching competency scores of teachers in relation to their experience, qualification and type of result were done in same way as followed in carlier sub sections. The mean teaching competency scores in various cells of factorial experiment followed by summary of anoval results are given in Tables 3.65 & 3.66.

#### TABLE 3,65

Mean values of Taaching Compatency scores of Teachers in relation to their experience, qualification & type of Real A. (highly experienced) A. (Low experienced)

	] (134				
	B <sub>1</sub> (Post- Graduata)	B <sub>2</sub> (lnd:r- Graduata)	B <sub>1</sub> (Post- Graduate)	B <sub>2</sub> (Under- Graduata)	
-,-,	. – . – . – . – . – . –		. = . = . = . = . = .		
(Lbove Lverage Rasults)C <sub>1</sub>	98.29	58.00	110.00	50.40	316,69
(Below Average Results)C	90.75	109.00	108.14	95.40	403,29
$\sum_{i=1}^{n}$	189.04	167.00	218,14	145.80	719.98

#### TABLE 3.66

Summary showing enalysis of variance on Teaching Compatency of Teachers in relation to their Experience, Qualification and Type of Results

Sources of variation	 	<b>df</b> 	M.S. &	 -ratio 	Significance	
<i>Į.</i>	937.45	1	937,45	14.76	Significant lavel	εt (
В	7.78	1	7.78	0.12	n.s.	
С	1113.45	1	1113.45	17,53	Significent lavel	rt
AxB	0.01	1	0.01	0.0002	n.s.	
УжС	1388.54	1	1388.54	21.86	Significant laval	∂t ().
ExC	316,26	1	316.26	4.98	Sıgnifican <b>t</b> levəl	;rt .l
$\lambda x ExC$	17.06	1	17.06	0.27	. n.s.	
Error	5525.36	87	63,51	-	_	,

n.s.= Not significant at .05 lavel of significance.

#### 3.5 Section Five

Study of Relationship between competent and non-competent trachers with the total adjustment scores.

In this section, the researcher has made use of biserial correlation technique for studying relationship between competent and non-competent teachers in relation to their total adjustment scores. The computations are shown in Table 3.67.

TABLE 3.67

Computation of r<sub>bis</sub> butween adjustment scores of competent and non - competent Teachers

		Non-Competa	. — , — , — , — , — , — , — , — , — , —
Scores		l Teachers	
	, _, _ , _ , _ , _ , _ , _ , _ , _ ,		
140-149	3	0	3
130-139	б	3	9
120-129	10	3	13
110-119	6	6	12
100-109	3 ' `	1	4
90-99	1	0	1
80-89	0	0	0
70-79	0	0	0
70 <b>-</b> 69	0	0	0
	-,-,-,-,-,-,	, - , - , - , - , - , - , - , - ,	, . , . , . , . , . , . , . , . , . , .
	N <sub>1</sub> = 29	N <sub>2</sub> = 13	N= 42
$^{ ext{M}}_{ ext{P}}$	= 125.53	M <sub>q</sub> = 170.65	$M_{T^1} = 126.40$
р	= 0.69	q = 0.31	$ \mathbf{OT} = 11.58 $
u	= 0.353		
r <sub>bis</sub>	= M <sub>P</sub> - M <sub>q</sub>	= p <sup>q</sup> x	125.53-120.65 69x0 -1.58 0,35
r <sub>bis</sub>	= 0.25		

2340

 $M_{\mathrm{T}}$  = Mean of adjustment scores of all 42 teachers

 $M_{
m p}$  = Mean of adjustment scores of 29 compatent tarchers

 $M_{
m q}$  = Mean of adjustment scores of 13 non-competent teachers

p = Prportion in Group-I

q = Proportion in Group -11.

6t = S.D. of adjustment scores of all teachers

Height of ordinate separating 0.69 and 0. 31 in a unit normal distribution.

The interpretation of the results of different enalysis has been dealt in next Chapter.

## CHAPTER \_ 1V

## DISCUSSION OF RESULTS

the results obtained in earlier chapter mend to be discussed and interpreted in order to understand the relation ship of different variables. The results of the present state are presented in five sections. The first and second section relate to study of organizational and administrative pattern of the schools showing consistently above and below average percentage of results. The third section partains to the views of the heads and the inferences therein. The fourth section is concerned with the study of mean differences in adjustment scores and competency scores of teachers in relation to different other variables like sex, qualification, training locality, experience and type of results etc. The fifth section is devoted to the study of relationship between adjustment scores of competent and non-competent teachers.

#### Section 1

In this section, organisation pattern of two type J schools is discussed.

The results obtained on the basis of check-list responses are divided are shown in Tables 3.1 to 3.28. These responses are divided into 10 sub-sections. The data shows that on the whole schools showing above average results (Category 2) have better organisation pattern as compared to schools showing below average results (Category B).

1. Tables 3.1 and 3.2 show that number of teachers serving in the institutions of category A on an average is more and better qualified than that of teachers of category B. This shows that qualification and training definitely play a significant role in enhancing the performance of the students

because qualified trachers are more rich in content and training. Table 3.3 indicates that trachers working in institutions of Category & have more work load than that of teachers of category &. Consequently teachers of category & may get fatigued an account of more work load which may adversely aftest their teaching. It is clear from Table 3.4 that whereas total experience of heads in the institutions of category & is less in comparison to that of heads of category they have more experience in the institutions in which they reserving at present. This shows that experience of the heads does not affect the performance of the students.

- 2. Tables 3.5 and 3.6 deal with location of the institut, distance and transportation facilities available to the students. They show that surroundings of the institution in urban and rural areas as well as distance and transportation facilities, which are better in institutions of category A, makes positive effect on the performance of students.
- 3. Tabl. 3.7 shows that more institutions of category L have planned building in which classrooms, laboratory and office are situated at one place. This halps in better organisation of the school work.
- 4. Tables 3.8 to 3.14 deal with physical facilities available in the schools. The data indicate that institutions of category? have more physical facilities in the form of dispensary, library, laboratory, study hall, craft room atc. as compared to institutions of category B. The institutions of category? have more separate offices for clarical staff, electrical heating and fan facilities as compared to institutions of category B. Patter facilities cartainly help in more work and better performance of the students.

- shown in Tablus 3.15 to 3.7. The institutions of Catagory have more classrooms and of bigger size then institutions of catagory catagory i. How var, average number of sections per class an apparate rooms for each section are more in institutions of catagory i. The average number of students in each section in institutions of Catagory i is less as compared to institute as a catagory B. This shows that more students take admission in institutions of catagory i and there is also less crowding in the classes. This facilitates in better individual attention which affects the school result in a positive manner.
- 6. The information regarding hardwares is summarized in Tables 3.18 and 3.19. The tables show that institutions of datagory? have more furniture and notice boards than institute ions of datagory B.
- 7. Tables 3.20 to 3.22 deal with maintainance and checking of school records. It is evident that more institutions of category? maintain a diary of weekly programmes and separate file for students. This helps in better coordination and planning of the teaching work due to which they show better results than institutions of category B.
- 8. Table 3.23 shows that " "more institutions of catigory? use models and maps as teaching aids than institutions of category B. Teaching aids cartainly help in batter understanding of the lecture which positively affects their performance.
- 9. Cocurricular activities are dealt within Tables 3.24 to 3.26 and 3.28. It is evident from the Data that all the institutions of category A and category B have provision for co-curricular activities. However, more institutions of category A organise dances, painting competitions, science fat.

End celebration of important days than institutions of catable.

B. Further, frequency of organising such activities, particle pation of teachers in these activities and provision of rower and labrary facilities to students is better in institutions catagory . This shows that provision of co-curricular activities is better in institutions of Catagory . Then institutions of catagory . This helps in all round and harmonical development of their students.

10. Table 3.27 shows that more institutions of category! provide moral aducation to their students as compared to institutions of category E. This makes the students more tolerant, knowledgeable, broadminded and tension free.

Thus, we can see that institutions of category A are better maintained, have more physical facilities and hardware have more and better qualified teachers and more institutions of this category have provision for co-curricular activities as compared to institutions of category B. The cumulative effect of all those factors results in better performance of the students of these institutions. So the hypothesis No.2 that the organisational pattern of both types of schools may be different is accepted

In this section, administrative style of the heads of the heads of both types of institutions has been compared. It is evident from Table 3.29 that all the values of  $\chi^2$  (except for item No.3 at 1df are insignificant at .05 level of significance. It rave that there are no significant differences in the administrative style of the heads belonging to Category A and B on all items except on item No.37, "Themselves prepare the estimates of expediture for coming calendar years", where  $\chi^2$  is significant at .05 level. So, the hypothesis that there may be significant differences in the administrative style of the heads belonging to differences in the administrative style of the heads belonging to different categories can not be accepted.

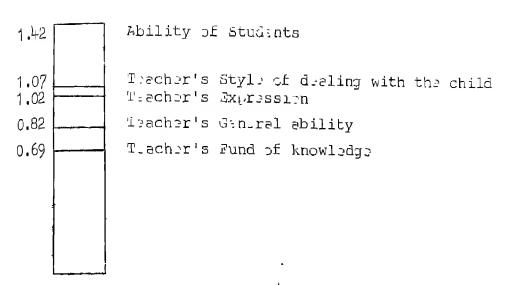


Fig. 1: Scale values of the first five factors affecting School results as viewed by the Heads belonging to schools showing consistently above average results.

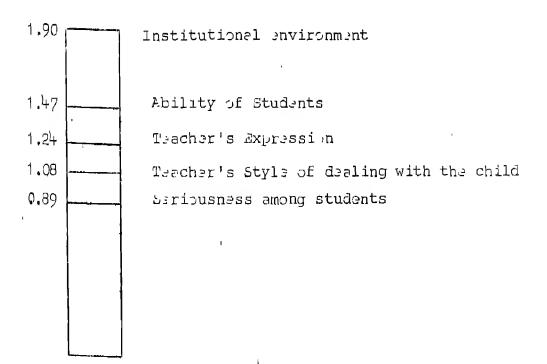


Fig. 2: Scale values of the first five factors affecting School results as viewed by the Heads belonging to schools showing consistently below average results.

#### Section III

# Views of Heads of Schools showing I bove Iverage Percentage of Results:

The investigator analysed the data of Heads working in schools showing good results. The views wore scaled on a continuum in order of preforences. I diagramatic description of the scale values is given in figure 1 and Table. 3.36 Figure 1 and Pable 3.36 indicate that ability of the students stand at the top as viewed by heads working in schools showing consistently above average percontage of results. The heads regard students ability as the prime factor which affect results too much. The scale value of this factor is 1.42. The consider teachers style of dealing with the child as the second important factor. The scale value of this factor is 1.07. The third factor which they consider important for effecting results is teachers expression with scale value of 1.02.Teacher's general ability is the fourth factor according to the heads of schools showing consistently above average percentage of result. The scale value of this factor is 0.82 Fifthly, they were of the opinion that toachers fund of knowlodge also affect result to a great extent. The scale value of this factor dama to be 0.69. The other factors ranked were as such:-

VI Teachers qualification

VII Students of Educated Parants

VIII Sariousness among the students.

IX Institutional Environment

A Euilding of School

XI Students belonging to Rich Families

1 ;

XII Effective leadership of Head

XIII Locality of School

XIV idaquata Equipment

XV Economic Conditions.

# Head of Schools showing Below I verage Percentage of Result.

The figure 2 and Table 3.40 indicate that heads of schiols showing below average percentage of result regard institutional environment as the major factor for affecting the consistancy of results. The scale value of the factor is 1.90. The ability of students is second factor with scale value of 1.47 and teachers expression is the third factor with the scale value of 1.24. The teachers style of dealing with the child and seriousness among the students are fourth and fifth factors with scale value of 1.08 and 0.89 respectively as viewed by heads working in schools showing consistently below average percentage of results. The other ranked factors were as such:

VI Teachers qualification

VII Locality of School

VIII Teachers General / bility

IX /dequate Equipment

X Students of Educated Parants

XI Teachers fund of knowledge

XII Students belonging to Rich Families

XIII Building of School

XIV Economic Conditions

AV Effective Leadership.

Reviewing the results obtained on the basis of scal.

Values, there appears to be much consensus among the heads of

two types of schools. The three factors viz. Phility of the

Students, Teachers' expression and Teacher's style of dealing

with the child are common in maintaining consistency of results

But the difference lies in showing good and bad results. The

Heads working in schools showing above average results consider

Teacher's ability and knowledge of the teachers as two other

important factors. It is true that such Haads have parhaps on successful in showing good results with the halp of good and offective teachers. The delivery of the lecture by the teacher in the classroom situation plays a pivotal role in making the child attentive. It is the teacher who makes the child sprious for his studies to show better results.

The Heads working in schools showing below average results pay more promium on the institutional environment followed by another different variable i.e. seriousness among students. It is true if the atmosphere of the institution is attractive, challenging and motivating, it will make the stude serious in their studies. It is believed the lack of such facilities in the school make the results to fall consistent below the standard.

The differences in proportions of the views of Heads belonging to two types of schools were further tested on each factor with the help of critical ratio. The critical ratio for funding but differences in the proportions of the heads revealed that only one C.R. was found significant. The significant C.R. of 2.94 was obtained only for institutional environment. It was balieved that Heads belonging to two different types of schools show differences in their percept' The heads belonging to schools showing poor results pay more premium to this factor in comparison to the heads of other schools. They have already placed it at first rank in order of preferences. /ccording to them, this is the most patent factor and lack of enriched institutional environment continu to badly affect the results of the students. There were no significant differences in the proportions of heads belonging to two type of schools on all other remaining factors. Thus the hypothesis No.3 that there may be significant differences

in the proportions of the views of heads of schools showing above and below average results can not be accepted.

### Section IV

#### Mean Difforences

A. Mean differences in competency scores of trained and untrained T achers belonging to Schools showing Aberaud Below iverage Percentage of Results:

## Main iffects:

The calculated F-ratio is far less than the table value of 3.94 against 1 and 96 df with  $\alpha = 0.05$ . It shows E i.e. trained and untrained teachers do not differ significantly from each other. The mean scores of trained teachers is 108.98 and mean score of untrained teachers is 176.56. Whatever the difference trists is because of sampling fluctuations. In other words, we can say that training of teachers is independent of their competency in teaching. The hypothesis of significant differences in competincy of trachers(trained and untrained) is/accepted. The colculated value of F for main effect of E is 19.09 which is far higher than the Labla value. This shows that type of schools as a single main variable shows significan difference on teaching competency of the teachers. It shows that the means of two levels of F differ from each other. The mean score of B1 i.e. schools showing consistently above everage results is 200.54 and mean score of  $E_2$  i.e. schools showing consistently below average results is 157.03. The mean scores of  $\mathrm{B}_1^-$  is higher than the mean scores of  $\mathrm{B}_2^+$  on tracher competency scores. It leads us to conclude that teachers of schools showing above avarage trasults are more competent than the teachers of the schools showing below average results. Hence, the computency of teathers dennot be said to be independent of type of schools. The hypothesis of significant differ nce in the competency of teachers belonging to different types of schools is accepted.

## Interaction:

The interaction for AxB i. . training oftenchers and type of results in competency scires of teachers is not signific cant. The calculated Feratio is for less than the required Paratio. The fact that this interaction mean square is not significant indicat s the difference between the means of  $F_{1}$ and In for the first leval of B is not significantly different from the difference between the means of A<sub>1</sub> and A<sub>2</sub> for the second level of B. In other words when AxB sum of squeres were equal to zero, then the difference in the mean competency scores of trained and untrained teachers in schools showing above average results would be equal to the difference between the mean competency scores of trained and untrained teachers; schools showing below everage results. Henceforth, we can a that training is independent of type of results in relation to compitancy of teachers. The hypothesis of significant tw factor interaction can not be accepted.

B. Mean differences in different areas of Toacher /djust in relation to Locality, Economic Conditions and Typ. Results:

#### Main Effects:

From Table F we find that a F-ratio of 3.95 will be significant against df 1 and 92 df with; = 0.05. We find that calculated F-ratios for A i.e. urban (A<sub>1</sub>) and rural (A<sub>2</sub>) localities on different areas of teacher adjustment viz. Heal Home-Social, Depromie, Institutional and Ethical are 1.96, 1.

1.48, 0.001 and 0.14 respectively. All these F-ratios of on different areas of teacher adjustment are less than the F-ratio of 3.95 required for significance at 0.05 level. This indicates that the difference between the locality of teacher has no effect on their health, home-social, economic, institutional and athical adjustment. In other words, we can say the locality of teachers is independent when different areas of

adjustment are taken as dependent variable. Thus the hypoth si of significant difference in the adjustment of teachers of different locality can't be accepted.

Fraction B includes the effect of two levels of Economic status of teachers i.e. high oconomic status  $(B_1)$  and low economic status ( $\mathbb{F}_2$ ) on different areas of teacher adjustment. Calculated E-ratios on health, homo-social, economic, institutional and athical adjustment of teachers in relation to their economic status are 0.31, 0.00, 0.06, 0.67 and 1.98 respectivels. These values are less than the f-ratio of 3.95 required for significance against 1 and 92 df at 0.05 level of significance. This indicates that the difference between aconomic status of toachers is idsignificant on different areas of their adjustm : In other words we can say that high and low sconomic status have no effect on health, home-social, economic, institution l end othical adjustment of teachers. It can be further conclus that adjamid status of teachers is independent of their adjact. ment in different fields. The adjustment of teachers does not get affected by the economic position of the teachers. The teachers seem to be satisfied with their occurate sailing. The the hypothesis of significant difference in mean adjustment scores of teachers of different economic status can't be accent

The calculated F-ratios of 0.86, 3.25, 0.77, 2.82 and 2.74 on health, home-social, economic, institutional and athical adjustments respectively for main effects of C i.e. schools showing consistently above average results  $C_1$  and schools showing consistently below average results  $C_2$  are less than the F-ratio of 3.95 required for significance against 1 and 92 df with  $\infty = 0.05$ . This shows that the difference between type of results has no significant effect on different areas of adjustment of teachers. It reveals that there are no real differences in the mean scores of adjustment of teachers

showing good and bad results. If any difference exists it may due to sampling fluctuations. Hence, we can say that type of results has no impact on different areas of adjustment of teachers viz. health, home-social, occnomic, institutional and othical. In other words at can be said that type of results is independent when adjustment of teachers in different areas is taken as a dependent variable. Thus, the hypothesis of significant difference in the adjustment scores of teachers belonging to different types of schools can't be accepted.

#### Interaction:

The interaction for AxB i.e. locality of teachers an adonomic status on different areas of adjustment is not signa cant. The calculated F-ratios of 1.86, 0.24, 0.0007, 2.91 and 0.0004 on health, home-social, sconomic, institutional and ethical adjustments are far less than the F-value of 3.95 required for significance against 1 and 92 df with  $\propto$  = 0.05. The fact, that this interaction is not significant indicates that difference between means of  $L_1$  and  $L_2$  for the first law of E is not significantly different from the difference botwee  $\hbar_1$  and  $\hbar_2$  for the second level of B on different errors of teacher adjustment. Henceforth, we can say that urban and rural teachers are independent of their economic status when adjustment of teachers in different areas (health, home-social aconomic, institutional and athical) is taken as dependent variable. The hypothesis of significant interaction is reject for FxB interaction on adjustment scores.

The interaction for  $I \times C$  i.e. two levels of locality of teachers and two levels of result are not significant on different areas of teacher adjustment. The calculated F value of health, home-social, aconomic, institutional and athical adjustments are less than the F value of 3.95 required for significance with K = 0.05. This indicates that urban  $(k_1)$ 

and rural  $(L_2)$  teachers with respect to above average and below average results do not differ significantly on adjustment of teachers in different areas. This shows that mean difference between  $L_1$  and  $L_2$  for the first level of C are not significantly different from the differences between the means of  $L_1$  and  $L_2$  for second 1 vol of C. In other words, we can say that order and rural teachers are independent of showing above everage and below average results when adjustment of teachers in different erea (health, home-social, economic, institutional and athical) is taken as a dependent variable. The hypothesis of significant interaction (LxC) on adjustment scores cannot be accepted.

The F-ratios for the interactions between ExC i.e.

two levels of acomumic status of teachers and two types of

results are insignificant on health, acomomic, institutional

and ethical adjustments of teachers. The calculated F-ratios

for these adjustments are less than the required F-value of

3.95 against df 1 and 92 with  $mathbb{X} = 0.05$ . The insignificant

interactions convey that high economic and low economic status

of teachers with respect to good and bad results do not exhibit

any difference as regards their health, acomomic, institutional

and ethical adjustments. In other words, we can say that

economic status of teachers is independent of type of results

when these four areas of teacher adjustment are considered as

dupendent variables.

Social adjustment of teachers came to be 4.13 which is high a than the required F-ratio of 3.95 for significance at 0.05 level of significance. The significant interaction conveys in high aconomic status and low aconomic status of teachers is had same with respect to above average and below average results on home-social adjustment of teachers. In other words the magnitus of difference between high aconomic and low aconomic status of teachers is not same within the limits of random variation for

In other words it leads us to conclude that different economic status is not indep ndent of type of results when home-social adjustment of teachers is taken as adependent variable. Thus the hypothesis of significant interaction (ExC) for only one area (home-social) of adjustment is accepted whereas for oth four areas of adjustment, it can't be accepted.

Lastly, the F-ratios for the interactions between ExBxC were found to be less than the table value on health, home-social, economic and thical adjustments respectively. Thus, all these values are not significant. The interpretate made thereof is that these three factors i.e. (urban and rur locality, high and low economic status and above and below everage results) when made to work jointly do not rowel any difference in those four areas (health, home-social, economic and ethical) of adjustment of teachers.

The F-ration for the three factor interaction of 7xExC on institutional adjustment was found to be 3.95 which is significant 0.05 level of significance. This indicates these three factors when made to work together reveal significant differents at 0.05 level on institutional adjustment of teachers. It shows the adjustment of teachers in a school gats offected by locality, accommic status and type of results. Thus, the hypothesis of three factors (7xBxC) interaction on adjustment adjustment. In other four areas of adjustment, this hypothesis can not be accepted.

C. Mean Differences in different Areas of Teacher Adjust in relation to bex. Type of result and Competency of Teachers:

#### Main Effects:

The F-ratios for 7 i.e. two levels of sex -  $Male(F_1)$  and Female (A2) on different areas of adjustment viz. Health

hyma-social, aconomic and institutional are not significant. The colculated Furstics for these four areas of teacher adjust-ment are less than the table value. This indicates that make and femal, to cheers it not differ significantly on health, home social, aconomic and institutional adjustment. In other words, we can say that sex of teacher remains independent when adjustment of teacher in four areas (health, home-social, aconomic and institutional) of adjustment of teachers is considered as dependent variable.

The calculated F-ratio for A i.e. male and female teachers on ethical adjustment dame but to be 5.78 which is significant at 0.05 level of significance. It indicates that sex has an impact on the ethical adjustment of teachers. It other words we can say that sex of teachers is not independ a dependent variable. The male and female teachers differ an ethical adjustment. Thus the hypothesis of significant difference in teacher adjustment in relation to sex is accepted in the area of othical adjustment. In other four areas of adjustmentit can't be accepted.

The F-ratios for the main effects of Bi.s. typ: of result above and below average on five areas of teacher adjustment namely health, home-social, occommic, institutional and othical are insignificant. This indicates that type of results has no effect on teacher adjustment. It also shows that no real difference exists between type of result and adjustment of teachers. Further, it leads us to conclude that type of results is independent when adjustment of teachers in difference is taken as dependent veriable. The hypothesis of significant difference in teacher adjustment in relation to the of schools can't be accepted.

The calculated F-ratios for C i.a. compatent (C $_1$ ) and

non-competent( $C_2$ ) teachers on health and home-social adjustment teachers are greater than table values. These two calcularies of 7.33 and 5.53 on health and home-social adjustment are significant at 0.01 and 0.05 levels of significance resultively. It thus, indicates that competent and non-competent teachers significantly differ from each other on health and home-social adjustment.

On the other extreme, F-ratios of 3.74, 1.52, and 1. In economic, institutional and ethical adjustment respective are insignificant as all fall short of required F-ratio of for significance at 0.05 level. This indicates that compate and non-competent teachers do not differ significantly with respect to their economic, institutional and ethical adjust lt further leads us to conclude that competency and non coming are not dependent when economic, institutional and ethical adjustment are taken as dependent variables. The hypothesis significant difference in teacher adjustment in relation to their competency is accepted in areas of health and home-social adjustment. In other three areas of adjustment, this hypoth can't be accepted.

## Interactions:

Esmale teachers, and above and below average results on fiv. different areas of teacher adjustment viz. health, home-soc economic, institutional and ethical are insignificant. The calculated F-ratios in these different five areas of adjustment 2.50, 0.39, 1.55, 0.39 and 2.07 are less than the F-ratificant table value of 4.00 against df 1/87 with (=0.05. This means that there are no real differences between the mean sof male and female teachers showing above and below average results on these five adjustments. If any difference existingly be due to sampling fluctuations. Hence sex of teachers

not related with type of results on their adjustment. In other words, we can say that sex and type of results are incependent when we talk of adjustment of teachers in different areas (hoslth, home-social, economic, institutional and ethical) as dependent variable. The hypothesis of significant interact.

(AxB) is not accepted.

The interaction for AxC i.e. male/and female (A<sub>2</sub>) teachers and competent (C<sub>1</sub>) and non-competent (C<sub>2</sub>) teachers are not significant on all the five areas of teacher adjustment. The calculated F-values of 0.00, 0.00, 3.68, 0.03 and 0.36 in health, home-social, economic, institutional and ethical adjustments are less than the required F-value for significance. Thus revuals that there is no real difference between sex and competency of teachers on all the five areas of adjustment. It also indicates that differences between means of A<sub>1</sub> and A<sub>2</sub> for the first level of C are not significantly different from the mean differences of A<sub>1</sub> and A<sub>2</sub> for the second level of C. Himpother, we can say that sex of teachers is independent of their competency when adjustment of teachers in five different areas are taken as dependent variable. The hypothesis of significant interaction (ExC) can not be accepted.

The M-ratios for the main effects of interaction of Excon health, home-social, economic, institutional and ethical adjustment of 1.42, 1.19, 0.71, 1.13 and 0.24 are far less than table value of F for significance at 0.05 level of significance. It is thus evident that no value on each of the five areas of adjustment is significant. The insignificant interaction conveys that above average  $(E_1)$  and below average  $(E_2)$  results and competent  $(C_1)$  and non-competent  $(C_2)$  teachers do not exhibit any difference on all the five areas of adjustment. This further mean that the differences between means of  $E_1$  and  $E_2$  for the First level of C are not significantly different for the first level of C are not significant leve

the difference between means of  $B_1$  and  $\tilde{\epsilon}_2$  for the second level of C. In other wirds type if result of teachers is independent of their competency when adjustment in different areas is taken as a dependent variable. Thus, the hypothesis if significant interaction (ExC) cannot be accepted.

Parks. The Firstin for second order interaction between Parks were found to be 237.92, 9.11, 4.98 and 27.45 on health, homesocial, economic and institutional adjustment. These values are far above the table value and hence they are significant. The significance firstins convey that sex, type of results and levels of competency when work jointly do influence the above edjustments.

The F-ratio for second order interaction between Anix was found to be 2.10 on ethical adjustment which is less that table value of 3.95. It means the second order interaction is insignificant. The hypothesis of significant three factor (AxBxC) interaction in four areas of teacher adjustment viz. health, home-social, institutional and economic is accepted. However, in one area of adjustment viz. Ethical, this hypothesis on not be accepted.

# D. Mean differences in competency scores in relation to experience, qualification and type of Results: Main affects.

The calculated value of F is 14.76 which is far high r than the table value and concludes the significance of the rai effects of Fi.e. levels of experience. It shows that the rai competency scores of two levels  $F_1$  and  $F_2$  i.e. highly experient and low experienced teachers respectively differ from each to the mean scores of  $F_1(316.69)$  is less than the mean score of  $F_2(403)$  on teacher competency scores. It further leads us to conclude that teachers having less teaching experience are more competent than the teachers having higher teaching experience.

Hence, the computency of teachers can not be said to be ind a dedent of their range of experience. It reveals the competency teachers can not be built through years but it is the original potential of the teacher which matters. The hypothesis of significant difference in the teacher competency scores in relation to their experience is accepted.

The calculated value of F-ratio is far lass than the table value of F for main effect of  $\mathfrak b$  i.e. qualification. It shows Post-graduate ( $\mathfrak B_1$ ) and under-graduate ( $\mathfrak B_2$ ) teachers do not differ from each other. It shows there is no real difference in the mean scores of post-graduate and under-graduate teachers in relation to their comptency in teaching. In other words, we case that qualification of teachers is independent of their competency in teaching. The hypothesis of significant difference in the competency scores of teachers in relation to their qualifications can not be accepted.

The F-ratio for the main effect of C i.e. above every, and below everage results is significant with  $\infty=0.01$ . The delculated value of F is 17.53 which is far higher than the trotal value. It shows that the means of two levels  $C_1$  and  $C_2$  differ from each other. The mean scares of  $C_1$  i.e. schools showing consistently above average results is 407.18 and the mean scares of  $C_2$  i.e. schools showing consistently below average results is 312.18. The mean scares of  $C_1$  is higher than mean scares of  $C_2$  on teaching competency scares. It further leads us to conclude that teachers working in schools showing above average results are more competent than the teachers of the schools showing below average results. Hence the competency of teachers can be said to be independent of type of schools. The hypothesis is significant difference in the competency scares of teachers in relation to the type of results is accepted.

# Interaction.

The interaction for PxE i.e. levels of experience  $(P_1 \& P_2)$  and levels of qualification  $(P_1 \& P_2)$  on competence scores of teachers is not significant. The calculated F-ratios far loss than required P-ratio. The fact that this interaction of mean squares is not significant indicates the differ between the means of  $P_1$  and  $P_2$  for the first level of B is a significantly different from the difference between means of and  $P_2$  for the second level of B. Hanceforth, experience is independent of qualifications in relation to competency of teachers. The hypothesis of significant (PxB) interaction cannot be accepted.

The F-ratic for interaction between AxC 1.2. two low of experience (A) and two levels of results (C) is far higher than the calculated value, which means interaction is significant. The significant interaction conveys that high experience (A<sub>1</sub>) and low experience (A<sub>2</sub>) levels of teachers are not same with respect to above average (C<sub>1</sub>) and below average (C<sub>2</sub>) results on teacher competency scores. In other words magnit of the difference between high and low experienced teachers not the same within the limits of random variation for school showing above and below average results. This further leads us to conclude that experience is not independent of type of results when competency of teachers is taken as a dependent variable. The hypothesis of significant (AxC) interaction accepted.

The F-ratio for interaction between BxC i.e. two label qualification ( $B_1$  and  $B_2$ ) and two levels of results ( $C_1$  is higher than the calculated value which mean interaction significant at 0.05 level of significance. The significant interaction conveys that post-graduate teachers ( $B_1$ ) and ungraduate teachers ( $B_2$ ) is not the same with respect to above

eyerage (C<sub>1</sub>) and below everage (C<sub>2</sub>) results on teacher competency score. In other words magnitude of the different between post-graduate and under-graduate teachers is not the same within the limits of random variation for schools shows above and below average results. This further, leads us to not conclude that qualification is/indocardent of type of result when competency of eyech is taken as a dependent variable. The hypothesis of significant two factor (ExC) interaction is accepted.

F ratio for AxBxC interaction is not significant. Section 1V

# Correlation:

The co-difficient of correlation based on  $r_{\rm bis}$  between computent and non-competent tenders with total adjustment as was found to be 0.25, which is insignificant. The required vot  $r_{\rm bis}$  for significance at .05 level as 0.304 against of of This adjustment at positive conselection between two groups. It also indicates that there is little association between the total adjustment accres. In other words, we can say that competency and non-competency of teachers is independent of their adjustment in classroom situation. Thus the hypothesis of significant positive correlation between accres of teach adjustment and competency of teachers can not be accepted. The findings and conclusions arrived on the basis of the results are given in next chapter.

# CHAPTER - V

General Conclusions, Educational Implications, Limitations and Suggestions for further Research.

A. Conclusions Based on Organisational Pattern.

In the light of analysis and interpretation of the data already discussed in chapter-iv, the following conclusions are drawn.

- 1. The average number of teachers, both trained and untrained are more in the schools showing consistently above average results (category i), as compared to the institutions showing below average results (category B).
- 2. The work load of the teachers working in schools showing consistently above the average results is less in comparison to the schools showing below average results.
- 3. Pverage experience of the heads is more for the heads of category A in comparison to category E in institutions in which they are serving at present. The total experience of the heads in schools of category A is less than that of category B.
- 4. Regarding the location of the school, it was found that.
  - rore percentage of the institutions of the category A, are situated in urban area;
  - ii) Less percentage of the institutions of the category 2, are situated in the rural area.
  - iii) . More percentage of the institution of the category A, are situated in the main market.
    - iv) Less percentage of the institution of the category k, are situated on the road side.
      - v) Students have to cover less distance to teach the institutions of category ?.
    - vi) More institutions of category A provide bus facility and local bus facility.

- 5. Regarding the building of the institution, it was found that:
  - i) hore percentage of the institutions in category ?, have packa buildings as compared to institutions of category B;
  - ii) There is no kacha school building either for category & or B;
  - iii) The datagory G has more mixed type of buildings;
  - iv) The institutions of category / have more planmed buildings in which classes and laboratories are situated at one place, as compared to the institutions of the category B;
    - v) More institutions of the category / in comparison to the institutions of category B, have better dispensary, library, laboratories, science rooms, staff room, auditorium, study hall, craft room, canteen, lavatory etc.
  - vi) All the institutions of category & and B have separate office for head.
  - vii) More percentage of the institutions in category & have a parate office for clark.
- viii) All the institutions of cat gory A & B get their school building white washed. The frequency of white washing is yearly in both the categories.
- 6. "agarding the drinking water facility, electricity lighting facility, heating facility in winter and fan facility in summer, it was found that:
  - i) The institutions of both the categories have drinking water facilities but the mode of providing water is different.
  - ii). More parcentage of the institutions have electric lighting arrangement in avery classroom in category A as compared to category B.
  - iii) More percentage of institutions have heating facility in winter in Cat gory 2, and its mode is mainly through electricity and coal.
  - iv) The percentage of the institutions is more in category A having fan facility. The presence of fan in every classroom is more in category A.
- 7. Regarding the classrooms it was found that:
  - i) /verage size of classroom is bigger in category Bein comparison to category A.
  - ii) /verage number of classrooms is more in category B as compared to the institutions of category A.

- iii) The percentage of the classrooms having more Vantilators is more in the institutions of category A as compared to the institutions of category B.
- iv) There is more percentage of the institutions in category A, where classes are divided into sections.
- v) / verage number of sections made of a class is more in th. institutions of category.
- vi) There is more percentage of the institutions in category & having separate glassrooms for each
- 8. Regarding hardwards, it was found that:
  - i) There is more percentage of the institutions of category A having notice board.
  - ii) All institutions of category A and B have black-Loards. Black-boards are fixed in more institutions of category A.
  - iii) /verage number of chairs in staffroom, office, classrooms and dasks in classrooms are more in institutions of category A, as compared to institutions of category B.
- 9. Regarding the school records, it was found that:
  - i) All the institutions of catagory / and B have register for admission and withdrawl of students, and a copy of syllabus.
  - ii) Less percentage of the institutions of category B, have a diary of weekly programmes.
  - iii) More percentage of the institutions of category t, have a copy of records of students progress, secrecy books and register for punishment.
  - iv) /lmost all the institutions of catagory / and B
    have accounts book, file for each staff member, but
    the file for students and file for purchases is
    more in the institutions of catagory /
- 10. Regarding the teaching aids, it was found that:
  - i) There is more percentage of the institutions of category / which use models and meps as teaching aids, and in which models are in working order.
  - ii) The institutions of both the categories have globe and charts.
- 11. Regarding the co-curricular activities, it was found that:

٠., 'u

i) There is more percentage of the schools in category I, where debate, declamation, quiz, Ausic Competition, Dances, Postic symposium, Painting competitions, Science fairs atc. are organised in comperison to schools in category B.

- There is more percentage of the schools in ii) category B which organish co-curricular activities ither after six months or on specific days.
- There is more percentage of the schools in y category /, whire teachers take part in co-curricular activities, students get reward, Rewards are in the form of prizes and more library facilities are provided than in category B

# 12. Regarding Moral Zducation

- It was found that there is more provision within schools of cat gory / whore moral education is provided. It is prescribed more in morning assembly by bradmaster, sometimes by extraol parson and moral ducation given is more effective in institutions of category & than in category B. But students participate equally in moral ducation Lasons in the schools belonging to both the categories.
- Conclusions Based on Administrative Style of Heads Ĥ,

There is no significance of differences in the administrativa style of the heads of working in two differen types of schools. The significance occurs only on item 37 "Theselves prepare the estimates of expenditure for coming calendar years", where  $\chi^2$  value is significant at 0.05 level.

The aconomic condition of schools of category A is better than those belonging to category 3 as revealed by the figures of grant, rovenue and expenditure per year of both types of schools.

# C. Conclusions Based on Views of Heads:

The Hoeds in schools showing consistently above average percentage of results ranked first five positions to the factors affecting the matriculation results consistently for . last five years as:

- Ability of the students 主)
- Teachers style of dualing with child ii)
- Teachers expression iii)
  - Toachers General Ability iv)
  - Teachers fund of knowledge.

The Heads working in schools showing consistently below average percentage of result assigned first five ranks to the following factors:

- i) Institutional Environment
- ii) / bility of the students
- ili) Teachers Expression
  - iv) Teachers style of Dealing with Child
    - v) Seriousness among students.

# D. Conclusions on Mean Differences:

- I. Differences in mean teaching competency scores in relation to their training and type of result:
- 1. The F ratio between trained and untrained teachers on teaching competency scores is insignificant.
- 2. The P ratio for above average and below average type of results was found to be significant when competency of teachers was a dependent variable. It showed that competency of teachers influence the type of results.
- 3. The F ratio for interaction between levels of training and types of results (FxE) came out to be insignificant when competency of teachers was a dependent variable.
- II. Differences in mean adjustment scores of Teachers in relation to their locality, economic status and type of results:
- 1. The F ratios for the main effects of two levels of economic status of teachers, two types of results and two levels of locality were found insignificant on all the five areas of teachers adjustment viz.

  health , home-social, economic, institutional and ethical.
- 2. The F ratios for first order interaction between locality and economic status (AxB), locality and type of results (AxC) were found to be insignificant on all

the five areas of adjustment i.e. health, home-social, economic, institutional and ethical.

- 3. The Fratio for first order interaction between economic status and type of results (BXC) was found to be insignificant on four areas of adjustment viz., health, sconomic, institutional and ethical. But the same interaction showed significant differences in home-social type of adjustment.
- 4. The F ratio for the second order interaction between locality, economic status of teachers and institutional type of result (FxBxC) on / adjustment was found significant, whereas it showed no significant differences on other four areas of adjustment.
- III. Differences in mean adjustment scores of teachers in relation to their sex, type of results & teaching competency:
  - 1. The F ratio for sex (1) was found significant on athical adjustment. It means there were significant differences in athical adjustment of male and female teachers. The F ratio for sex on other areas of adjustment showed no significant differences.
  - 2. The F ratio for type of results (B) was found insignificant on all the five areas of adjustment. It means schools showing results above average percentage and below average percentage were not affected by any of the areas of teacher adjustment.
  - 3. The F ratio for lavels of compatency (C) were found to be significant as regards their health and home-social adjustment. It means that compatent and non-competent teachers differ from each other in health and home-social adjustment. No significant difference was observed in F ratios for economic, institutional and ethical adjustment.

- 4. Differences in health, home-social, economic, institutional and athical adjustment were independent of joint influence of levels of sex and type of the result shown by each school (AxB).
- 5. The F ratio for first order interaction between sex and livils of competency of teachers (AxC) was found insignificant in all the five areas of adjustment.
- 6. Differences in health, home-social, economic, institutional and othical adjustment of teachers were independent of the joint influence of type of results and levels of competency of teachers (ExC).
- 7. The P ratio for the second order interaction between sex, type of results and competency of teachers (PxExC) were found significant at 0.01 level in health, home-social, economic and institutional adjustment, whereas in the same interaction, no differences was found in othical adjustment.
- IV. .. Differences in mean teaching competency scores of teachers in relation to their experience, qualification and type of results.
  - 1. The f ratio for levels of experience (4) was found to be significant at 0.01 level when competency scores of teachers was taken as a dependent variable.
  - 2. The F ratio for qualification (E) was found to be insignificant. It means qualification has no role in making the teachers computent.
  - 3. The F ratio for type of results (C) was found to be significant when competency scores of teachers was taken as a dependent variable. It means schools showing result above and below average have differences in competency of teachers.

- 4. The F ratio for first order interaction between experience and qualification (7xB) showed no significant differences in competency of teachers.
- 5. The F ratio for first order interaction between experience and type of results (%xC), qualification and type of results (BxC) showed significant differences in competency scores of teachers.
- 6. The F rates for second order interaction between experience, qualification and type of results (/xBxC) jointly showed no significant difference in competency scores of teachers.
- V. Conclusion based on bisorial correlation of adjustment scores of computent and non computent teachers:
  - 1. The relationship between competency of teachers and their total adjustment scores was found to be insignificantly low positive.

#### E. Educational Implications:

1. The findings and conclusions of the present study inducate that in the institutions showing consistently above average results (category 1), there is more trained staff and average work load of the teachers is less as compared to the institutions showing consistently below average results (category 2). This shows that qualification, training and work load plays a significant role in unhanding the performance of the students because qualified teachers are rich in content and training and more work load on the part of the teachers may adversely affect teaching.

In view of findings, it is suggested that trained teachers should be appointed in the institutions and work load of the teachers should not be more.

2. It is evident that more institutions of the category  $L_{\ell}$  are situated on the road side where local bus facility is

evailable and these institutions also provide school bus facility. It may, therefore, be suggrated that institutions should provide schools bus facility for the students.

3. More institutions of the estagory 1, have paces building and planned building in which classrooms, laboratories are situated at an place. Also more institutions of this category have dispensary, library, laboratories, science room, staff room, auditorium, study hall, craft room, garden, canteen, play ground, common room and separate room for the clark.

It is an admitted fact that building plays a major role in making the institutional climate of the institution congenial for the growth and development of the students. In view of these findings, it is suggested that the Government as well as other voluntary organisations should take some concrete stops for constructing planned buildings for the institutions.

4. The findings indicate that more institutions of the category I have all attracting arrangement and fan facility in every class-room as compared to the institutions of the category B.

It may, therefore, be suggested that institutions should have electric lighting arrangement and fan facility in every classroom.

5. It is evident from the findings that the more classes are divided into sections, average number of sections made of a class is more and number of students in each section is less in the institutions of the category A.

It may, therefore, be suggested that there should be provision of segregating classs into the sections and number of students in one section should be less to pay more individual attention to the students.

6. The average number of chairs in the staff-room and dasks in the class-rooms is more in the institutions of the

category I than B. It may, therefore, be suggested that there should be appropriate number of desks and chairs in the class-rooms and in the staff-rooms respectively.

7. The findings indicate that more institutions of the category I, have a copy of record of students progress and log book. Again, records are checked regularly in the institutions of category I.

It may, therefore, be suggested that not only school records be maintained by those records should also be checked regularly.

8. It has been found that participation in cocurricular activities is compulsory in more institutions of the dategory in than B. In more institutions of the dategory in the B. In more institutions of the dategory in attachments in outlings, damps are organised and teachers de-operate students in outlings, further, more institutions of the dategory is delebrate the important days like Teacher's day, Children's day, Sport's day, flag day, Mother's day and organise Annual functions.

It may, therefore, be suggested that institutions should have provision of communicular activities and participation in them should be compulsory. Games, picnics, should be organised and teachers should co-operate students in outings. All the institutions should colobrate the days of national importance, annual functions and should participate in Inter-School Competitions and games.

9. It is evident from the findings that more institutions of the datagory 1, have the provision of giving moral education to the students. It may, therefore, be suggested that all the institutions should have the provision of giving moral education to the students.

In vi.w of the findings, it may, therefor, be suggested that heads of the institutions and teachers should provide opportunities to the students for participating in various activities and there should be provision of giving rewards.

Igain, parants of the students should also be informed about their children's performance.

The effective leadership should be provided in both types of schools to make the administration and supervision of work more scientific and usiful. There should be checks on the administrative style and functioning of heads. The Heads believe that teacher's quantum of knowledge and his expression is very important in making the teaching learning process effective. In selections, the teachers of dedicated spirit, having knowledge of subject matter and capacity to communicate proper delivery should be selected.

There has occurred a great divistion in two types of schools. The schools have definite characteristics and paculiar—ities because of which they show differential results. This problem should not occur in Govt. Schools where uniform oractices and conditions are adopted. The sex and competency are two other important factors which show deviation in two types of schools. The teachers of good schools have proved to be competent. Places all the good schools fall in urban ar as or important rural places, nearest to the cities, where trained and efficient teachers are often provided. But it is against natural justice. The government should provide trained and efficient staff in schools in remute areas also.

# F. Limitations:

- In the present problem, the study was confined to the secondary and higher secondary teachers of few selected schools only.
- In a big population of teachers, only 100 teachers were selected.
- 3. Teachers from colligus, middle and primary schools could not be taken.

- 4. The present study is confined to the results of matriculation class for last five years of J&K Board.
- 5. The reliability of the tools was not ascertained as it was not the objective of this study.
- 6. Two standardized tools viz. teacher adjustment inventory and teacher computency scale wire only used.
- 7. The student could not be made part of the study.
- 8. Some other variables, which might affect the result, have not bun centralled.
- G. Suggestions for further study

  The following suggestions may be incorporated for further studies:
  - 1. The study can be conducted on a large sample.
  - 2. The other variables like emotional adjustment, job-satisfaction, ability of the students can b incorporated,
  - 3. Such studies can be undertaken at college and primary school levels as well.
  - 4. Influence of other cognitive and non-cognitive factors can be explored on the schools showing consistent type of results.
  - 5. I study may be undertaken to compare the institutional climate of schools showing good and bad results.

#### BIBLIOGRAPHY

Adval, S.B., Swamy, S.P. and Aggarwal, M.,

1

Aggarwal, J.C.

Bakshi, F.D. J

Bost, J.W.

P.L., Mukerjee, S.P.,

Bose, P.K.,Ban rjoe, P.K. and lukorjeo,S.F. J

Euch, H.B. (Ed.),

Cooka, Doughlas and Dunhill, Damas,

Doktawala, F.B.

Dunhil, Jam.s

Geind, B.N. and Sharma, R.P.,

"Socindary School Libraries in

Utter Predish", Ministry of Education financed project, D partment of Education, Ellahabed University, 1957.

Educational ?dministration, School
Organisation and Supervision. Now
Delhi . rya Book Debet, 1967.
Physical Education in Delhi School,
CIE, N w D lhi, 1965.

Research in Education, New Dolbi : Prantice Hall of India, Pvt.Ltd., 1984.

Educational Facilities Available in the Higher Secondary Schools of West Bingal (1963-64), N.C.E.R.T. I financed project, Department of Statistics, Calcutta University, 1965.

Primary Schools and Their Teachers in west Bengel, N.C.E.R.T. financed project, Department of Statistics, Calcutta University, 1972.

Second Survey of Research in Education, Barada: Society of Educational Research and Development, 1979.

School Organisation and Management Lindon: The English Book Sociaty and University of Lendon Press, Ltd., 1963.

Teach r Moral in Secondary Schools

of Gujerat, Ph.D. Thesis, N.S.U. Baroda,

1971.

Disciple in the Class-rooms, London:
The English language Book Society
and University of London Press, 1.td.,
1961.

School / dministration, /gra: Bharat Publication, 1958. Garrot, H. E.

Gupta, 1.k.,

Gupta, N. \

Karmyogi, F.P.

Mathur, S.S. and Kahli,V.K.

Mohieuddin, S.M.

Houly, G.J.

Murthy, V.B.

rillai,J.K.

Raju,Boulah

Rai, B.C.

Rao, T.k.s.,

Statistics in Psychology and Education, Bumbay: Vakils, Fiffer and Simons, 1979.

Estudy of Class-room Teaching

Bihaviour and Crativity, New Dolhi;

Light and Life Publisher, 1980.

Problems of Figher Secondary Schools of igra District, Ph.D. Thesis, Igra University, 1967.

An Investigation into the Problems

of Educational Administration in

Madhya Fradish From 1947, with

Reference to Secondary Education,

Ph.D. Thesis, Ravi Shanker University,

1974.

School idministration ind Organisation, Jullundur: Krijshna Brother, 1969.

School Organisation and Measuroment Lebor: vost Pak Publishing C. Ltd., 1963.

The Science of Educational Research, New Delhi; Eurasia Publishing House (Pvt.)Ltd., 1964.

Library Science in Sciendary School
in Madras State, The S.I.T.U.Council
of Educational Research, Madras, 1974.

Organisational Climats, Techer Morals and School Quality, Ph.D. Th.sis, N.S.U. Barada, 1974.

School Health Programme in Selected Middle Schools of Delhi, New Delhi: N.C.E.R.T., 1970.

School Organisation and Health
Education, Lucknew, Prakash Lundra,
1966.

Study of Class-room Climate in
Sucondary Schools, Ph.D. Thesis,
M.S.U.Baroda, 1977.

Sharma, N.L.

Sharma, S.,

V-rmo. P. . .

with Frincipals Eff.ctiveness and Tracher Satisfaction, Journal of Psychological Researches, (21).3, 1975.

Study of institutional Climate of Govt. High Schools showing consistently Good and Foor Results at the Patriculation L vol. M. Phil. Dissortation, H.P. University, Simle, 1982.

In Intr.duction of Educational and Esychological Research, New Dolhi: Isia Publishing House, 1965.

SCHOOLS OF JR:MMU PROVINCE SHOWING CONSISTENTLY ABOVE AVERIGE AND BELOW IVERIGE RESULTS (WITH YEIRWISE RESULT PERCENTIGE)
FOL THE L. ST FIVE YEARS IN W. TRICULITION EXAMINATION
J&K BOARD OF SCHOOL EXAMINATION

# A. SCHOOLS SHOWING ABOVE FVERAGE RESULTS

5.	S. Name of the School: Yearwise Result Percentage Overall						
Nэ.	Name of the School	1980	1981	1982	1983	1984 p	Overall result arcantage
1.	Govt.H.S. Majalta(Udhampur)	91.67%	78,78%	75%	53%	73.7%	74.43%
2.	Covt.H.S. Thial(Udhampur)	80.95%	70.85%	51,69%	52.93%	74.5%	67,18%
3.	Nohru Memorial Academy, Udhampur.	83.78%	100%	100%	100%	100%	96.75%
4.	D.A.V.High School, Udhampur	100%	90%	90.47%	87.5%	81,81%	73 <b>.4</b> 5%
5.	Govt.Girls,h.S.S., Udhampur	72.15%	80.70%	75%	57.60%	53,11%	67.71%
6,	Govt.Girls, H.S. Chanani	100%	52%	58,33%	59.00%	- 100%	73,88%
7.	Jovt.H.S. Thuroq(Mehori)	100%	54.45%	93.33%	77.78%	80%	81.11%
8.	Vivok Nikotan, Udhampur	100%	58,37%	100%	70%	90.90%	83,85%
9.	Govt.Girls H.S., Basholi	•. 60%	81.25%	64.70%	100%	73.68%	75 <b>.92%</b>
10	Gevt.H.S.kohag (Billa <b>w</b> ar)	58,82%	81,25%	53%	66.67%	71.42%	66,23%
11	Govt.Girls H.S. Billawar	83.33%	100%	10 0%	81,25%	72 . 72%.	81,46%
. 12	Govt.H.S.S. Mohanpur	53.75%	56%	67.67%	72.50%	79.31%	65.84%
13	Guvt.H.S.Mara (Billawar)	66.67%	87,5 %	62.5 %	60%	71,42%	69,62%
14	M.L.H.S.S. kathua(Biys)	58.62%	80.82%	67.74%	53%	72,16%	66.47%
15	Jagriti Niketan, Kathua	54.45%	94,12%	65%	90,9%	95%	79.89%
16	Govt.H.S., Lakhanpur	61%	81.25%	70%	54.85%	70%	67.42%
17	Govt.Girls H.S., Gagwal	52,95%	57.69%	65,21%	55%	76.92%	61,51%
* 18	Govt.H.S., Chann Rorian	60%	69,56%	55%	54.26%	84,61%	64,69%
19	Govt.Girls H.S. Hiranagar	75.6%	68.52%	53%	88.89%	100%	77.2%
20	Govt. H.S., Sallan	66.67%	55%	53.84%	53% .	94.44%	64.,59%
-  -	-		ı			<b>,</b> ,	r d

s,	Jame of the School	Yearwise Result Percentage					Overell
No.⊾	Nami of oil boutor	1980	1981 .	1982	1983	1984	rosult, ercontage
				<del>.</del> سـ سو سو ـ		- Hán jag	
21.	Gavt.H.S. Kubatah	95.83%	62.5%	72.72%	56.58%	54.17%	68,36%
22	Govt.Girls H.S, Kootah	100%	53%	72.72%	66.67%	52,99%	69%
23	Govt.Girls H.S., Sunder Beni (kejauri)	100%	86.36%	59.37%	68.95%	63.15%	, 75,57%
24 .	Govt.H.S.,Channi- Prat(Yowashra)	80%	70%	58.38%	78.57%	71.42%	71.67%
25	Govt.H.S.Cambiri (Nowashra)	56.25%	85,71%	61%	56.52%	52,98%	62.49%
26	Bovt.dirls H.S. Nowashra	55%	72.72%	65%	90%	85.71%	73.69%
27	Gavt.Girls H.S.S. Rajouri	77.78%	53%	80.43%	66,67%	58.13%	67.2%
28	Bovt. Jirls H.S., Samba	74.5%	68,52%	83%	75%	8 4%.	81%
29 -	Govt.H.S., ^ Sunjwan	68.42%	68,42%	53%	59.57%	54%	60,68%
30	Govt.H.S., Samilpur	92.3%	70%	54%	65.12%	53.11%	66‡9%
31	Govt.H.S.Simbal Camp(K.b.Pura)	55%	66.67%	52,55%	60%	89%	64,64%
32	Govt.H2S. Bahalwal(Jammu)	53.84%	71,82%	62.56%	64,58%	57.5%	62%
.gg.	Govt.Girls'E.S. Burg Məndir(Jəmmu)	55%	66.67%	75%	66.67%	100%	72.67%
34.	Govt.Girls H.S:, Gol Gujral(Jammu)	100%	90%	86,67%	57.14%	63,63%	79.45%
35	Govt.H.f.Bhour Camp(Jammu)	64.28%	53,	<b>52.</b> 63%	86.67%	100%	71,31%
36	36 Presentation Convent School, Gandhinagar				,		
	(Jammu)	89%	95.95%	95,65%	93.83%	100%	94.89%
37	Luthra /cademy Gandhinagar(Jammu)	75.6%	71.87%	73,33%	83.33%	90.62%	78,95%
38	Cantral Basic School,Gandhinagar (Jammu)	54.58%	58.38%	72%	94.44%	95%	70.89%
39	GoVt.Girls H.S. Kachi Chowni	90.32%	63,46%	81,65%	75%	69,56%	75.99%
40.	Arya Girls H.S. Kachi Chowni	69%	78,72%		77,5%	65%	70 44%
41	Arya Kanya Vidyaly Purani Mandi	ya 95 <b>.</b> 95%		·	96.6%	58,82%	87.84%
42	Gurmat Kanya Path- shala, Jammu	- 89 <b>,</b> 65%,		95,12%	86.2%	62.16%	81%
43	Govt.Girls H.S., Bakshinagar	75,78%				61.67%	70.18%
							11 45

			- 128 -				
5. lt.	Name of the School	1980	rwis F 1981	şvlt F <sub>.</sub> r 1982	g.ntfj. 1983	1984 per	ov.rall r:sult rc:ntag:
			4 <u>-</u>		·		-,
44	rahavır dain H.S. dammu	935	100;	<b>ს6.53</b> %	64.93%	84.487	59.397
45	D.wan Badari Nath Vidya Landir, Jammu	92.55%	97.97,	94.76,	97.157.	94.377	95,36%
46	Luthra . cad my Palac. Kind, Jammu	73.68,	ძე.78,	82.6%	67.44,	90%	79.46,
47	Vidra Fidh m.S. Jammu	• জিলী : 85>	d9.47,	100,	92.85%	75.86%	90.2%
	Luthra / dadomy wajrat koad(uammu)	\$ 5 <sub>W</sub>	95.45%	72,274	10 0%	96.15,	90.777
49	(ico rn (dadimy Chouta Larbina (Jammu)	97.82,	<b>ԵՐ•</b> 09%	73.527	9 25	34 <u>.</u> 215	87.16/
50	uagriti rik.tan Jammu	91;	93.4%	57.53,	617	92.85%	87.16,
51	Ori ntal . cad. my	100,	96.56%	s6.£7,	98.147	100>	SE. 14,
52	Light rous Public School	100%	100%	100%	90.38%	98.157	97.70,
53	Universal cademy Jammu	e5.71,	66 <b>.</b> 67/.		69.23/	84.21,	75.56/
54	Model icademy, Jammu	97%	917	100%	87.51,	99,	94.877
55	Shastri Mimorial H.S.,Jammu	57.14%	100%	64.7>	10 0%	100%	64.37%
56	Unique .cademy Bhartnagar	10 0 %	807	92.5%	56.25%	95.24/	84.75%
57	N.w bhastri M.mori H.S.Talab Tillo Jammu		60.67	47.78	90.62%	94.28%	80,66,
	H. SCHOO	) LS DI O V]	[1'5 E.]LO	7 VER: G	3 ROSULT	<u>'5</u>	
1.	Govt.H.S.Ghorari (Ramnagar)	50%	13.33/	25%	34.5%	41,66%	32.9%
2.	Govt.[a.Damla (Ddhampur)	zero	9,10%	50%	257	45 <b>.5</b> %	26,72%
3.	Govt.H.S.Jaganca	42.57%	41.67;	46 <b>.1</b> 5%	489	40%	43.685
4.	Jovt.H.S.Barulla (	44.447	37.847	36,	31.487	16.67/	32.29/
5.	Govt.A.S.S. Reasi	25 . 457	44.747	48.38%	24.677	33.33,	36.15%
6.	G.vt.H.S.S., Hiranagar	47.627	. 24,697	38,277	33.64	26.67/	34.187
7,	Govt.M.S. Lurran(Pounch)	50%	29.417	100%	creg	Zero	17.88%
8.	Govt.H.S. Loran (Foonch)	20%	, sero	zero	ZJIO	25%	9% ~

ΝJ.	lemi .ī th. Sch :]	1980	1981	1982		1984 p: ;	Overell result reantege
9.	Juvt.H.S.S. Euys (Fu.nch)	33,337	48.65,	25 <b>,</b> 11'	, 35,	43.92%	700
10	Govt.H.L.Chandak(F (Puonch)			33.30;			37;
11	Grvt.H.S.Chak Garulad(kaj.uri)	zeri	48.,	19.44,	G.59/	41.42x	28,29 <sup>7</sup> 23,49 <sup>7</sup>
12	Javt.H.S.Suulki Pajouni	2(.57,	367	5u,	5,5%	٠ - ١٠	29.11/
13	Govt.H.S.Lung a (Noweshra)	ر ۲۰ ک	5.08/	10;	33, 33,	7.67	11,38
14	Govt.1.5.5. Nowsanra	kı rç	25 <b>.</b> 487	2.,	2.1,	40%	32.47
15	Jovt.D.S.rughlan (Lajouri)	zirj	3,20%	16,677			14.13
16	ತುಶಕ.H.೮.๖. ದಿನಗರಿಕ	52.70/	27.23%			45.24/	35,54,
10	U⁻vt.H.S.Chaunı Nimat	95,					
18	Jivt.H.E.L hal (Lisharah)	23,61,	25.457			12,62,	28,95/
19.	Govt.H.S.Sai (k S.Pura)		43.36,				267
20	Govt.Girls H.S. Badyal Erahmna	26.57,	zero	50,		42,	43, 11;
21	Juvt.E.S.S.E.S. Pura	13.53%	28%	17.61,		0.33, 16.53)	26.61, 17.33,
22	Govt.N.S.Darh	50,	31.25,	51/	567	JE 71	40 - Cc
23	J.vt.H.b.M. thi	27,		25%		35.71/	43.59/
24	J.vt.H.S.kaipur		25%	•	40,	17.65%	
25	DV.H.S.Jammu Kachi Chuwani		33,30%			16.½ 20%	21,8%

#### 1 PI ENDIX -P

### L.C. J. K. T. RODE RCH PROJECT

### ChiCkLIST

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P.G.Dapartment of
Education,
Univ raity of Jammu,
Jammu

Duar Sir/Harland,

I am w reing in a MCERT r s arch project intitled, "Significant Corolate of SSR high schools showing consistently above and below everage results at the board examination for the last five years". You are requested to full the appinded pages an abolige. This information will be used for research purposes only.

I shall be grateful to you for this kind favour,

Yours faithfully,

١

( KENU SAWHNEY )
Juni r Rostarch F llow,
MCGRT Project.

I.	<u></u>	t∂££	و المحالية الم	n r heres	. The second sec
7.8	1.	Utt	al number if thachers in the		
	2.		br funtrain dt.ch.rs		personal laws and the same a proper of the same and the s
	3.				
	J.		b r of trained tachers		
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		(٠-	r., .rGd's		And the second s
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		٠,	Shastri Drawing Tach r		manufactures described by real, for all design
		h)	To the state of th		المان ال
		i)	P.T.I.		Bennender seguinenbilden s.m. z. debreen Sem
		ήÌ	inv other		

	5.	Total Experience of the Head of Institution	the	engeligenia para para a mini dialahagan - mari, Abid - enga a mini dialahaga -
	6.	Experience of the Head of the in the present institution.	nstituti∍n	and the second of the second o
II.		LOC, TION OF THE INSTITUTION		
	7.	a) In Urban ar.a		MATTERN III MAT MARKETING PROPERTY.
		b) In Aural area		has to plates manifestation
		c) in the main warket		THE CONTRACTOR OF THE STATE OF
		a) On the rest aids		discount (major), problement in the house
		e) any other location		manifestation in 170 annumentum and our server
	ì			
	٤.	reximum distance students have cover to reach the enstitution	to	er all y h a wall-reference you have in surrough or
	9.	is schiol bus facility provided	7	Y_s/Nu
	10.	Is local bus faculity available	?	YJs/NO
	11.	Lo stud-uts have their own wohi	cl.s?	Y.s/No
	12.	If yes, hiw many students have own vehicles.	their	makening palaments, or upon the specimens.
	13.	ny thir provision		galance and a participal state of the last purpose and the state of the last purpose o
ìÌL.	<b>*</b>	BUILDING OF THE INSTITUTION		
	14.	ls sch ol milding		
		F2025 (5		The second secon
		b) Fatcha		المتعادية
		c) Mixud		Ministrative production of the same of the same last
		a) Sheds		
		.) iny other	~ 4m.	
	15			
	15.	ls school building planned?		Y33XNO

17.	If n., what is the actual situation?	-
IV.	FACILITIES IN THE INSTITUTION	
18.	Dous the institution have.	
	a) Dispinstry	Yos/No
	b) labrary	los/No
	c) inhurat ry	Y s/No
	d) cianco rum	Y.s/No
	e) Staff reini	Yes/Nu
	f) ;uditorium	IBS/NC
	g) Study Fall	Yes/No
	h) Room is manual work(craft)	Y:s/No
	i) Jarden	Yos/No
	j) Canteen	Yus/In
	k) Play gr und	Yes/No
	1) Cimmion room	Y 's/Nc
	m) Levetor:	c <sup>7</sup> /8¢1
19 .	Dons the in titution have a parate office of m	
	c) the bac of the institution:	CM\ery
	b) clirk	Yes/No
20.	Is so', of building white washed?	Y3s/NO
21.	If yes, whom it is white washed:	Yes/No
	a) Half yearly	
	b) / anually	
	c) Not fixed	
22.	Dois institution has drinking water facility:	Y, s/No
23.	a) By coolirs	and the superior property was beautiful. I have been supply
1	b) By water taps	*
	c) By tank	

		d) By fitchers	magazinistring, was a strainten, das semantika tikum
		e) iny ith r arrangiment	- No. 100 -
	24.	Do sith institution has electric lighting arrangement:	Y3s/No
	25.	Is there electric lighting arrangement	
		a) in clirk's office?	Y's/No
		b) in the Head's offic 3	Yus/No
		c) in class roms:	Yes/No
	26.	s on institucion has harting Cacility:	Y:s/No
	27.	which if the fillowing heating arrangiments are available in the institution?	
		a) Pictric h aters	CM\s.Y
		b) Latennyeletors	Cas/No
		c) Fir word	Y.s/No
		d) C:al	Yes/No
		o) ingother errangement	an pharmachan I into the person
	20.	Down the institution has fan facility?	rus/No
	29.	Down two facility of fans:	Y.s,ro
V.		CL/SS ROOMS	
	30.	Total number of class rapms in the institution	u bywaniany wantonika ya u kitowania wali
	31.	v rom. siz. of the class room	No. of Principle Section Secti
	32.	(r) class s divided into sections?	Y.s/No
	33.	If yes, who is the basis of classification	
		a) On the lasis of marit	
	_	b) On the brais of sex	
		c) on the basis of chronological age	The same of the sa
		d) kandomly	Market ) Sandrick places may Send Marketin Marketin
1	1	e) iny other critoria	
· 1	34.	Maximum numb r of students in one section	
1 1	35.	Maximum number of socionsmeds of a class	,
	36	Although the same was been	Yes/No

37.	If us, wention that classes ar conducted	
•	e) in a hall	
	b) in varandah	# The state of the
	c) in מיני. מו	
38.	d) .Virey. Fiz. of the class room Pre claisrooms wentilated? H. LD ./ K ls	
39.	Lo s the institution has notice board?	Yos/No
40.	Dy s TV.ry dlyse rubu has a black board?	Y.s/No
41.	If you, we not in that black boards are:	
	e) Fix.d -	
	b) 1V&b] ·	
	c) of both types	
42.	If there is a provision of black boards, h w th. stu. ats are taught?	Market American Control of the Contr
	ε) On the net books	العقد شارقة (درانك ) حجاز جربين ليجانسن (مالسنانك)
	b) on the slates	The second section of the section of th
	c) Orali	manufacture of the same distributions in the same same same same same same same sam
	d) involunt provision	
	'	,
43.	Numb r pi chairs in.	
	F) the staff r, m	
	b) th sifice	
	c) Pach class room	
44.	From which class inward dasks are provided:	1
45.	ivirago numb r of dasks in a class room	
46.	fro mats işsuld for class which do not havo d sksî	CM\seY
47.	If no, mention the provision adopted?	
	a) Have students to bring mats?	Y3 <b>s/</b> No
	b) iny other provision adopted	

### VII. SCHOOL LECONDS

45.	${\mathbb D}$ ن ج	th	institutj	n	lie S
<u>-</u> س	U. C.	C-11-	7,170,070,03		

45,	. Dols the institution has	
	a) Kijistin E admission and additional of sturnts?	Yes/No
	b) out marne rigist r	
	a) die begheret	r̃⊋s/ro
	b) for alreas st	Yos/No
	c) / waity of the Plant of the term of the class section to a	7. s/No
	d) reduced by Halman in the property of the control	T s/No
	of a copy a communication of the first	Y 5/NO
	f) capy or conduction, also in a second column as section.	i s/No
	g) i by bull or increasing reaction reactions. The rest of the res	Y •s/No
	h) pungern st hods.	/ 5/No
	1) Require Last	Yup/No
	j) Poll for.	
	sech stud nto:	r.syNo
	k) will be reporte our careful our	7 9/110
49.	are records full and compd to the automate	Y S/NO
50.	ire this riceros chief in a netart.	X 50/ No
VIll.	P3 Child / 1DS	
51.		Y.s/No
52.	Dols instituti r has	
	a) រ.គ.បន	Y ·s/No
	b) Charts	r'_5/No
	c) Glibe	Y.s/Nc
	d) / my other	and the second second second second
	<b>~</b>	
53.	ir: models in working ord r?	Y.s/No

IX. COCURRICULAR ACTIVITIES

54. Which of the following cocurricular activities are organised in your institution?

	e) Dilieti	
		C/N/acY
	The state of the s	Yus/No
	a) 11a/s	$Y^-s/N^-$
	a) vuiz ( la titi n	Yas/ko
	-) luiso o mo tita n	Yus/No
	E) Dilling,	CM\s_Y
	J, L (IC E <sub>I</sub> ') Fluid	Yas/No
	hy rade found	Yus/No
	i) Frieding Competition	cví\s, Y
	j) thistich	L.S/No
	), wedence that	Y:s/No
55.	Do s the imputatuta a programs; the above mate and o curricular activities.	
	r) ( 1.1;	rus/No
	b) mathly	Y·s/No
	c) Half corly	V∃s/Wo
	i) Pu s, cific days	Y s/Nc
56.	Do the technis of your institution take part in a curricular activities:	Yes/No
57.	Do the students of your institution got reward to participating in communicular activities	ds Yus/No
£0.	in the rivers to the students in the form	
	a) Frizes	Y`s/No
	b) Pasitian of hunour	I's/No
59,	DD s your instituti a provide library faciliti s to the students for taking part in debate, declarations etc.	Yos/No
60.	Dots your instituti n callbrat.	
	e) l.h.o. day	Y:s/No
	b) k public day	Y s/N.
	c) Indup ndonce day	Y.s/N.
	d) Tiacher day	cM\seY
	e) Children day	Yas/10
	•	

f) '.,H.O. de,-	
g) sports Jay	¥∃s/No
·	CNI\s Y
h) z'lay .!ay-	Y s/No
1) i thris dry	Ý - S/NO
X. MOFEL MUCK TICH	
61. Dolb your institution has provision for juving moral oducation to the students	Vis/No
62. la mral dication given in.	<i>y</i> - 1-2
r) Primary resumbly	Y 8/10
l) Class r. ms	
c) Ganaral matings	Y. 8/10
d) clus mitings	I's, No
	135/10
63. Is marai ducation given by	
a) . sad cê the institution	Jas/No
b) Thack so in rotation	
c) with futsid rs	Yes/No
	13 <b>5/</b> 40
64. Dous studints participate in mutal education lessons:	V
65. Is mural Gucation given in your	Y.S/KJ
institution off.ctivo	Tas/No

/ PPENDIA - C

# NCERT RESMACH PROJECT

### SCHEDULE

Principal Invistigator, Dr.S.M. Jupta, Department of Education, Eurukshetra University, Lurukshetra.

Co-invistigation.

Dr.Lokish i. Verma,
P.G.D partment of Education,
Iniversity of Jammu,
Jammu.

D. er Sir/1 = Jam,

I am working in a NCIRI research project entitled "Significant Cortlates of WEA high schools showing consistently above and below average in sults at the board examination for the last five years'. You are requested to fill up the appended pages and oblige. This information will be used for research purposes only.

I shall be gratiful to you for this kind favour. Thanks,

Yours faithfully,

( REMU SiWHNEY )
Junior Research Fallow

	14C, U.S.	,
	Total Experience	
	Frme of the lastitution	Lifery Fig. Valley or and
	Qualification	
	Cxp.rianc- in this institution	97 D- AND MAY JUNE
	<b>~.</b> _	
1.	ਕਾ ਮੁਤਬ make ਮੁਤਬਾ ideas of an to the staff?	Yes/
2.	Do you discuss new ideas with the staff?	Yts/M.
3.	Do you ask the staff in mbers to follow standard rules and regulations?	Y35/10
4.	Do you maintain definit, standard of purformance?	Yes/10
5.	Di you see that your staff members are working upto their full capacity?	Yas/r ·
ნ.	Do you assign particular task to a particular staff member:	Yes/1
7.	Do you make personal fevour to any of the staff mamber:	Yasy)
٤.	Do you find time to listen patiently the problems of the individual staff	YFS/
۶.	If yes, do you take some personal interest in the problems of individual staff?	Yes/l
10	no you help your staff members to settle minor differences?	Yes/1.
11	Do you work without consulting your staff in running the administration of your institution?	res/l
12	Do you make all class scheduling decision yourself:	Yes/ı'
13	Do you make sure that your part in the organisation if your institution is understood by all your staff members.	Yes/ho
14	Do you contact teachers of your institution daily?	Yes/N·
15	Is communication between you and teachers open?	$Y \triangleright \mathbf{S} / Y \cap$
16	Pre you consistently humble in dealing with teachers and students:	Yes/Po
17.	re you enthusiastic in informing your staff, the policies and regulations of the social system?	Yes/lu

18.	ωυ γυα put suggestions in operation put by Your stafe members?	Y⊜s/io
<u>1</u> C	ic you welcome students view in the staff meetings:	Yes/No
20	Tre you respectful if the dignity of others?	Yes/15
21	Doyuu make provisions ior improving staff competancies:	1 <b>?\$/</b> ľ'ɔ
ے 2	Do you encourage your staff mambers to harm?	Yas/Ko
23	Do you enclurage teachers of your institution to develop tasts in refrasher courses and teachings:	Yes/uc
24	υν γυα criticise poor work of teachers.	Yes/1'0
25	D) you explain reasons for criticising the teachers?	Yas∕lọ
26	Do you criticise poor work of students'	Yas/In
27	bu you explain reasons for criticising the students:	/ دسا/sex
ل 2	Do you use constructive criticism?	Yas/10
29	D. you inspect the institution?	Yes/No
30	Do you organise faculty meetings?	Yes/No
31	Do you yourself maintain the school records regularly;	Yes/ro
32	lf $n_{\rm c}$ , are school records maintained by the clerk?	Yes/lo
33	Do you send budget proposals to government or any ther agency regularly;	Yts/lc
34	Are you satisfied with privisions for budgeting:	Yes/Mo
35.	Do you yourself check the budget of institution regularly;	Yes/No
36	Do.s the Institution utilize funds given by Government properly?	Yes/1.o
37	Do you yourself prepare the estimates of expanditure for coming calender year:	Yes/No
38	by you invite the parents of students in the institution:	Yes/No
39	нім much grant do you get from Government par year:	F
40	what is the revenue of school per year?	The state of the s
41	How much amount is being actually spent in school for building, library, laboratory etc.	The state of the s

### NCJRT RESEALCH FROUECT

### QUESTION TILE

Principal Invistifator: Dr.S.A.Gupta, Department of Education, Lurulshetra University, Kurukshetra.

Co-Investigator.

Dr.Lokesh R. Verma,

E.J.Department of Education,

University of Jammu,

Jammu.

ems 1	Dasianation
Experience of stey in present	Total Experience
Institution	Locality
Name of the Institution	and the second of the second s
parlichampers	

and the second s

### INSTRUCTIONS

This work is based on a NCERT research project.

You are supplied with a questionnaire which contains

15 items. You are requested to go through each item

carefully and review as to which factors affect the

matriculation result mire. You are further requested

to rank the five most important factors in order of

profesences. Give 5th rank to the factor to which you

consider most important in influencing the consistency

of result. Likewise, place 4,3,2 and 1 rank to the other

factors followed by the first.

Your responses will be kept confidential and your comperation in this regard will be acknowledged.

Yours faithfully,

( RENU SAWHNEY )
Junior Research Fellow

Sr N	Btatement	Factor
1.	Teachers (ualificati :	Ā
2.	Teachers General Ability	ប
<b>3.</b>	Teachers Fund of Enowledge	С
۲.	Trachers Expression	עז
5.	Teachtrs styl of Dealing with Child	IJ
ó.	Pariousness am ny atudents	Ī,
7.	Students of Educated Parents	G
့ပါ 🛦	Students belonging to Fich Families	H
<u>("</u>	bility of Students	I
10	Institutional Anvironment	Ú
11	Affective Leadarship of Erincipal/ Headmaster	١,
12	Locality of School	Ь
13	Reonumic Conditions of School	1.2
14	Bullāing	ĪN
15	∃quipm=nt	0

# General Teaching Competancy Coale

Ly Pessi & Lalita

	Name of the Toacher							
	Class to be taught	_					- Linguis and a	
	l'upic							
	The state of the s			- major 1 ama			mar per ea i	
	uatelim: Durati;	n		<del></del>	~			
		all	at		A	_	MILI	ry
4		1	2	ى •	4 .	•	6	7
	MING (Pre-instructional)							
1.	Objectives of the lesson were							
	appropriate: clearly stated							
	relevant to the content,							
	edequete and attainable.	•	•	*	•	•	•	•
2.	Content selected was appropriate relevant and adequate with respect to the objectives of the lesson, and accurate	•		•			•	•
3.	Content selected was properly organized. Logical continuity and physhological organization				_	_		_
٨		•	•	·	•	_	·	•
4.	Audin-visual material chosen were appropriate, suited to the pupils and content, adequate and necessary for attaining the objectives.		•		•	•		•
ರಾಧ್ ಘ	SEAR/TION (Instructional)							
5.	Lasson was introduced effectivel	. 77.						
	and pupils were madercady	_						
	emotionally and from knowladge							
	point of view to receive the							
	new lessin. continuity in							
	statements or questions, relevan	, sor						
	use of previous knowledge and us							
	of appropriate device/technique	•	•			•	•	

	_ 145 _								
_			ist al		2	4	_		Very much
6.	Questions were appropriate well structured, properly put, adequate in number and made	Τ	2	2	3	4	5	б	7
	pupils participate.	•	•	•	•	•	•	•	•
7.	Critical awareness was brought about in pupils with the help of probing questions prompting, seeking further information, refrequency, redirection and increasing critical awareness.	•		•	•				
೮.	Concepts and principles were	-		-	-	•	•	•	•
	explained (understanding brought about) with the help of clear,								
	interrulated and meaningful						,		
	statements: statements to create						•		
	set, to conclude, statements								
	which had relevancy, continuity								
	appropriate vocabulary explaining	3							
	links, fluency and had no vague words and phrases.								
		•	ı	•	•	•	•	•	•
9.	Th concepts and principles were illustrated with the help of								
	appropriate examples through								
	appropriate media(verbal and								
	nonverbal): simple, relevant to								
	the content and interest level								
	of pupils.	-		•	•	•			•
10	Pupils' attention was secured and maintained by varying stimuli like movements, gestures, changing speech pattern, focusing, changing interaction styles, pausing, and oral-visual switching: Pupils' postures, and listening, observing and responding behaviour of pupils.	ng			•				•
11	Deliberate silence and nonverbal								
	cues were used to increase							,	
	pupil participation.								

	•	ฟิรt อไม่ ไ		3	4	5		ery nuch 7
12	Pupils' participation(responding and initiating) was encouraged using verbal and nonverbal in reinforces.		•			•		4
13	upsed of presentation of ideas was appropriate, matched with the rate of pupils' understanding and there was proper budgeting of time.			_				
14.	Pupils participated in the class-ruom and responded to the tracher and initiated by giving their own ideas and reacting to others' ideas.	•	•	•	٠			٠
15.	The blackboard work was good: legible nest, appropriateness of the content written and adequate.	•	•		•	•		
CLOS:	ING							
16.	The closure was achieved appropriately, main points of the lesson were consolidated, present knowledge was linked with the past knowledge, opportunities were provided for applying present knowledge, and present knowledge and linked							
17.	with future learning(assignment) The assignment given to the pupils was appropriate, suited	•	•	•	•	•	•	•
	to the content taught, and adaquate.	•				•		•
₫V&L	JULTION.							
	Pupils' progress towards the objectives of the lesson was chand the procedures of evaluation were appropriate, relevant to the objectives, valid, reliable and objective.	ı		•		•	٠	
1	and objective.			ø	1	٠,		l 911

Not	∂t.				4	Vary
all		•		1	_	much
1	2	3.	4	5	6	7

19. Pupils' difficulties in understanding a concept or principle were diagnosed by step-bystap quastioning and suitable . remedial measures were undertaken.

### MALEGERIAL

- 20. Both attending and monattending lehaviturs of the pupils were racognized, attending behaviour was rewarded, directions wer. given to eliminate monattending behaviour, questions wert asked to check pupils' attending behaviour, pupils' attending behaviour, pupils' feelings and idlas were accepted, and non-verbal cues were used to racognize pupils' attending and monattending behaviours.
- 21. Classroom discipling was maintained in the class, pupils' followed teacher's instructions that were not related to the content.

Comments (if any).

#### APPENDIX - F

### NCERT RESEARCH PROJECT

### PANDEY'S TECHER ADJUSTMENT INVENTORY

Principal Investigator:
Dr.J.M.Gupta,
Department of Education,
Kurukshetra University,
Kurukshetra.

Co-investigator: '
Dr.Lokesh F. Verma,
P.G.Dapartment of Education
University of Jammu,
Jammu.

Dear Sir/Madam,

I am working in a NCERT research project entitled "Significant Correlates of J&k high schools showing consistently above and below average results at the board examination for the last five years". You are requested to fill up the appended pages and oblige. This information will be used for research purposes only.

I shall be grateful to you for this kind favour.
Thanks,

Yours faithfully,

( RENU SAWHNEY ) Junior Research Follow

# PANDAY'S TEICHLR I DOUSTMENT INVENTORY

1.	Name
2.	Qualification
3.	Pay
4.	Grade
5.	dxpcrience
6.	Locality-Lural/Urban
7.	Since when you are working in the present School
8.	what percentage of results you have shown in this Echool
9.	which class you are teaching

### भाग – अ

	जा। – अ	
1.	क्या आप का स्वास्थ्य ऐमा है कि आप को उस का पर्याप्त	
	ध्यान रसकर काम करना पड़ता है 9	हां/नहीं
2.	क्या आप कार्य करने की धुमता में कुछ कमी का अनुभव करते हैं १	हां/नडीं
3.	क्या आप दूमरों को स्वस्थ देखकर आने स्वास्थ्य के विषय में	
	सोचने लगते हैं १	हां/नां
4.	क्या आण प्रात: उठने पर अक्मर थकान का अनुभव करते हैं १	हां/ना
5.	क्या आप प्राय: बोमार रहते हैं १	हां/नहों
6.	क्या मिर में अवसर चक्कर आने के कारण आप अपने कार्य को	
	बीच में रोक देते हैं १	हां/हों-
7.	विषा प्रतितिन के जार्य को आप अच्छे दंग से करने मंं कुछ	
	कितार्डका अनुभव करते हैं १	हां/नहीं
8.	क्या किमी कार्यको आरम्भ क्रते ही आपके हृद्य में धड़ान	
	मुरू होती है9	हां/नहीं
9.	क्या आगको भविष्य में वोपारी को भींका प्राय: रहती है १	ਵਾਂ/ਜਵੀਂ
10.	क्या आपको थोड़ी तबीयत सरांब होने पर बड़ी बीपारी का	
	भूम होने लगता है १	
11-	क्या आपको जुकाम हो जाने का मंदेह अक्सर हो जाया करता है १	हां/नहीं

12.	क्या गमीं में जू लगने के डर में आग बाहर निकलने में घवडात हैं 9	हा ४सड
13.	क्या ाव को किपी रोग हो चर्जा पूनने तथा उपके विषय यं	
	पड़ने में उस रोम के ही जाने का संदेह हो जाता है।	हां /नहां
14.	क्षा आप अनुभव दस्ते हैं कि आपको भीजन ठीव मे नहीं	
	पचला १	हां /नहीं
15.	कथा आपको असी समरण भवित पर पूर्ण भरामा रहता है १	हां /नहीं
6 •	कपा ऋतु परिवर्तन का प्रभाव आपके स्वास्थ्य पर भीष्ठं पड़ जाता	
	है 9	हा <sup>•</sup> /नह¦
17.	क्या वीमारी पें डाक्टर को देखते ही भाषपं कुछ वबड़ाहट होने	
	लगः ति है १	हां /नहीं
18.	विया आप कियो भी ममस्या हा स्तकाने पें कुछ कठिनाहीं का	<b>ਵਾਂ</b> /ਜ਼ਫ਼ '
	अन्भव करते हैं9	
19.	क्या आपको वस पा रेलगाडी गं यात्रा करने गं डर लगता है 9	हा <b>ं</b> /नहों
30 <b>·</b>	कथा आपके गरीर का वजन धीरे-धीरे कप होता जा रहा है 9	हां/नह'
21.	क्या आप कूछ गयम के लिए किभी स्थान पर जाने के पूर्व सोचने	
	लगते हैं कि कहीं वहां वीसार न पड़ जाय 9	हां 🗥
22.	क्या आप अनुभव करते हैं कि छोटी-छोटो बातों पर क्रोध	
	दिखताने का बरा प्रभाव आप के स्वास्थ्य पर पर एए हो है 9	हां/नहीं
23.	क्या आप पैट की बीपारी के डर में अच्छी से अच्छी चीज खाने	हां/नटीं
	में हिच्याचाते हैं 9	
24.	क्या आपको फेक्रेड की बीमारी का डर है 9	हां/नहीं
25.	कथा आपके नेत्र ने पानो प्राय: बहता है १	हां /नहीं
26.	क्या छोटो में कठिनार्ड उपस्थित हो जाने में आप प्राय: निराध	
	हो जाते हैं ?	हां /नहीं
27.	क्या आप को छूत की बोमारी जल्द लग जाती है 9	ां/नहीं
23.	क्या आप का गला प्राय: मूला रहना है 9	हां/नहीं
	us g	

	29.	क्या आप प्रायः मुस्ता का अनुभव दरते है १	हां/इ.
	30.	क्या आप को नाक में माम लेने में प्रायः कठिनाई होती है 9	डां/न <sup>्</sup>
		वा हिंदी	
,		क्या आपकी बीमारों में आम के माधी आपको देखन कव आते हैं 9	हां /न= '
	2.	क्या आप की अपने धरेलू जीवन को सुधारने के तिर काफी प्रयत्न	
		करा पड़ता है ?	हाँ/नः
	3.	कार आप अन्भव करते हैं कि नूमरे लोग आप पर कम विश्वास	
		करते हैं ?	हां / नहीं
	4.	क्या वे लौग जिन का उत्तरदार्यन्व आप पर है आप की अवज्ञा	
		करते हैं १	हां/नहीं
	5.	क्या आप को विधवास है दि आप के परिवार के लोग आपके	
		टपवहार में मत्ंघत रहते हैं १	नं∕नटीं
	6•	क्या आप अनुभव दरते हैं कि दूसरे लोगां क गृति आप के	
		प्रेमपूर्व व्यवहार जो देखकर परिवार के तोग कृष्ठ अमंतृष्ट रहते हैं १	हांं/नतंं
	7.	क्या आपके परिवार है लोग आप के ध्यवहार को ठीक में न	
		समझ पाने के कारण आप को कः है कभी कठिनाई में डाल देत हैं १	हां /-१ही
	8.	क्या आप परिवार के लोगों को उतने अच्छे ढंग नेनहीं रखते	
		जितना चा हिए १	हां /नहीं
	9.	क्या परिवारिक उलझनों के दारण आप हो अध्ययन के लिए दम	
		समय पिलता है 9	हां /नहीं
	10•	वया आप अन्भव करते हैं कि परिवार के कई लोगों की जिला	
		का स्तर मंतीषजनक नहीं है १	हां /ाः
	11.	क्या आप अपनी वातों को दूसरों के भाषने कहने में क्छ	
		न्निज्ञक <b>ते</b> हैं 9	हां/खो

12.	क्रम आप अनुभव करते हैं कि आप के अच्छे कार्य की भी	
	सराहना नूमरे नहीं तरते १	हां∕-्ह्ं
13.	यदि आप वर गर दिमी की आपन्त्रित करते हैं तो क्या	
	उनका सत्तार उचित ढंग में हो पाता है १	हां <u>'</u> /नहीं
(4,	विया आप अनुभव करते हैं 17 परिवार के विभावत लोगों	
	की भवा अचित ढंग ने नहीं हो पा रही १	हा /नहीं
5•	वभा आप अनुभव करते हैं कि परिवारिक समिने में आप	
	इतने उलक्ष रहते हैं कि दूसरा कि हित के विषय में मीचने	
	का अवसर ही नहीं फ़िलता है १	हां / न <sup>ु:</sup>
16.	क्या आप मामाजिक उत्सवों में शाष्ट्रिमलित हो कर भी	
	अफ़ैलंपन का अन्भव करते हैं १	डां/न <sup>्</sup>
17.	वया आप एक व्यक्ति की कही वात को दूसरे में अक्सर	
	कहते हैं 9	<b>町</b> /1' ' <sup>'</sup>
18.	क्या आप गरिवार के ज़ूछ जोगों जी क्रुंड आदतों जो	
	देखार प्राय: कोध दिलागिया करते हैं १	हां ⁄गः
19.	क्या आप अनुभव करते हैं कि परिवार के अन्य लोग आपको	
	विशेष परवाह नहाँ लरत हैं १	हां/नहीं
20.	क्या आप अनुभव करते हैं कि गाया जिक उत्सदों में आपकी	
	आदर फिलता है १	हां/नहीं
2  •	क्या आप अनुभव करते हैं कि परिवार के लोग कभी कभी	
	आपकी उन्नति के पार्ग में बाध क बन जाते हैं १	हां/नहीं
22.	का आप टूपरे के पजाक को ठीक सपक्ष पाते हैं ?	हां/नहीं
23•	क्या दूतरों की उन्नति देसकर आप अपने विषय में मोचने	
	लगते हैं १	हां /नहीं
24.	क्या आप अञ्ले रहने में अधिक मुख का अनुभव करते हैं 9	हां/नहों
25.	क्या आप ृषरों से कभी कभी ऐसी बातें कह जाते हैं कि	-1
	स्वयं कितनाई मंपड़ जाते हैं 9	हां /नहीं
26•	क्या आप को अपरिचितों से यातचीत करने में झिझक होती है १	हां/नहीं
27.	क्या आप दूनरों की कठिनाईयों में उचित सहायता देते हैं 9	हां/सी
		1 .

23	क्या आग कभी कभी दूसरों के प्रति ऐम ठायं दर जाते हैं	
	जिम के लिए गांट में पञ्ताना पड़ता है 🤊	हां/नटों
29.	क्या दूपरे प्राप: अप ४ हब्ट टो जाते हैं १	टां/नहों
30.	वया भाषाजिल अवसरीं एं दूपरों की हंमते ट्राकर आप	
	कारण जानने को का भिषा दस्ते हैं 9	डां/-हों
	विग १स्	
١.	क्या आप की आय एमी है कि उमे ध्यान में रस्कर आप की	
	कार्यकरना पडता है 9	et'∕∵ '
2•	क्या आम को आर्थिन कारणों में ट्यान अधिक करना पड़ता	
	है <b>?</b>	हां/नाः।
3.	क्या आण दूमरों को अच्छा कपडा पहने त्खकर उमी प्रकार के	
	कपड़ाँ की इच्छा करते हैं ?	हां/सः∵
4.	व मा अनुभव ारते हैं कि आप की आर्थिक स्थिति आपके दार्थ	
	मं बाधक है 9	हां/नटीं
5.	वया आप अनुभव इस्ते हैं कि वेतन की कपी के बारण आप	
	अध्ययन लार्थ को उतनो कुशलगापूर्वक नहीं कर पा रहे हैं	
	जितनी चा हिए १	हां/नहों
6.	क्या धनी लोगों का 1फ़ाने मं आपका मंकोच होता है 9	हां/नहीं
7.	क्या वाहन न होने के कारण आप विधालय घर में पैदल	
	जाते हैं १	हां / नहीं
8.	वया इच्छा होते हर भी आप मिनेपा कम देखते हैं १	हां/नतें
9.	क्या आप बच्चों को विधालय जाते प्रजय तीपहर के नाइते	
	के लिए उचित प्रवन्ध करते हैं 9	हां/नः '
10.	क्या आप बच्चों से घर पर पढ़ाई के अतिरिक्त चरेलू का म	
	नेते हैं 9	हां्ं∕ां
11.	वया अनुभव करते हैं कि सामाजिक उत्भवों पर उचित खर्च नहीं	
	कर पाते १	हां /नह
12.	क्या आप यह सोचा करते हैं कि दूसरे आप मे अधिक सम्पन्न हैं ३	हां/नहीं

13.	वया अनुभव करते हैं कि आफिक मैंकट के लाएण आसा	
•	अधिक सप्य अध्ययन में नहीं है पाते १	<b>官</b> 广へ : !!
14.	क्या आप को पृति पाह द्कानदारां ने सापान उधार	
•	लेना पड़ता है 9	ef/
J5 <b>.</b>	क्षा आपके हर पाह के आरम्भ में ही यह चिन्ता हो जाती	
1 -	है जिप्रे भाइ का सर्व कैंगे को ना १	et/1.1
6•	क्या आप अन्भव करते हैं कि आप उतना उचित ढंग से गर्च नहीं	3 1 18
,	करते जितना करना चाहिए ।	हां/नहों
17.	क्या आप अनुभन करते हैं कि अधाभाव के कारण आप	<del> </del>
• •	आवार्यक प्रतिका को भी नहीं खरोद गकते 9	हां /नहीं
18.	क्या आप दूररे विभागों के वेतन भोगी व्यक्तियों की	1
	विभाग मुखी सम्झते हैं १	हां /नहीं
19.	क्या आप अनुभव करते हैं कि कुछ लोग आप को आधिक	
	कष्ट में देसकर समा होते हैं ।	हां /स्स्
20.	क्या आप अनुभव करते हैं कि आप के पास वें भी वस्त्रहं नहीं	ı
	हैं जो एक ऋधापक के लिए आवश्यक हैं।	et /-17 -
21.	क्या आप में हमेशा अधिक धन कपाने की इच्छा रहती है?	हां 🖅
22.	क्या आप प्राय: यह मोचते हैं कि आपका वृद्धापन ठीक ढंग	
,	से नहीं निकलेगा १	हा /नः
23.	क्या अथाभाव के कारण आप अपने परिवार के अविषय के बारे	
	पें अधिक चिन्तत रहते हैं १	हां/त
24.	क्या आप धन को आर्ट्ण जीवन का एक पात्र माधन मानते हैं 9	हां/स्रो
25•	क्या आप अन्थव करते हैं कि अथाभित्व के कारण आप दूमरों	
	ंका सत्कार ठीक से अपने घर पर नहीं कर पाते १	हां/ाही
26.	क्या आप वच्चों के लिए आवश्यक खेल मामग्रियां उपलब्ध कर	
	पाते हैं १	हां/नह
27•	क्या आप कभी-कभी अपनी आरथिक स्थिति में दूली हो कर	
	आने को ही कोमतं हैं 9	हां/त

58°	्या दूपरों के पांचने पर ग्राय: आप दह कठिनाई में पड जाते	武二
	है कि कैमें पंत्रट किया जाए 🤉	,
29.	किन भाग भ्रमाव करते हैं कि नी गार पड़ने पर अधाभाव	
	े जारण ? चित उपाये नहीं कर पाते 9	हां/नः ै
30.	कण आप परिवार है एए स्वास्थ प्रद भोजन साम्हो का	
	प्रबन्। वरने ५ राठनाई हा अनुभव यसते हैं १	डां/नहां
	ជា ≰a⊭	
	वया आप अनभव करते हैं कि क्शा का प्रतिपादन आप के	
	ान के अनकूल नहीं हो पाता 9	हां/नहों
2.	मणा निवासी जो हमते दसनर आपको मंदेह होता है	
	ि कहीं आप उसके हास्य नहीं है ?	हांं/नहों
3.	क्या आग गोचते हैं कि आगकी आवाज नितान्त पीछे बैठे	
	विधा थियों तक ठोद में नहों पहुंच पाती ।	हां/नां
4.	क्या प्रधानाध्यापक अक्सर आप से अपूर्णन रहते हैं १	हां/न '
5.	वया पृथानाथ्यापक भाषकी अनचित आतोचना प्राय करते	
	रहते हैं १	हार्
6.	क्या कक्षा में नामकों जा आप पदार्थ हर हाठ पर विचार	
	<sup>खादत</sup> करने जा पूर्ण अद्यार देते हैं १	हां/न
7.	क्या आप अनुभव हरते हैं कि पृधानाध्यापक आप की	
	णिकायत कभी-कभी अन्य अधिकारियों से भी किया करते हैं १	हां /नह
8.	क्या आप अधिकारियों की गृष्त रियोर्ट में कुछ मंशक्ति रहते हैं 9	हां/ऋा
9.	क्या कक्षा में पढ़ाते नपय आपको प्राय: थळान का अन्भव होता है	37EI/T
10.	क्या कक्षा में प्रवेश करते ही कभी-कभी विना कारम आपगें	
	घवराहट आ जाती है 9	डां/नहीं
11.	क्या पढ़ाते समय बीच—बीच मंं आप कभी कुछ उद्धिगन हो	
	जाते हैं १	हां /नहीं
12.	वया कथा में विधार्थी तभी-कभी विना कारण गोर करने लगते हैं9	हां/नहीं
13.	क्या कक्षा में पढ़ाते पचय आप बालकों को अधक निर्देश दिया	हां/नहीं
	ट्रित हैं 9	

14監	क्या आप विज्ञालय पं उत्मवीं पं अधिकतर भाग नेते हैं ९	ET /1
<b> 5</b> •	क्या आप अनुभव करत हैं कि दूररे लोग आपली योग्यता का	
	ंठीक ने आदर नहीं करते १	er/s
16.	क्या आप अनुभव करते हैं कि कुछ अध्यामक अधिक प्रभावपाली	
	ं जानों की ग्टबन्दी को प्रोत्पाहित करते हैं ?	हां⁄न
17.	क्या आप अन्धव हरते हैं कि विवालय में क्य पोण्यता वाले	1
	अध्यापक अधिका रियां के विभेष कपा पात्र हैं १	हां / त
18.	क्या आपको वार्षिक वेतन वृद् िप्नतो है १	et /a
19.	क्या आप और विज्ञालय के किनी अन्य कर्पवारी में विवाद	XX PET AND THE PET
	पैदा होन पर अधिकारियों हारा पक्षपात त्लाये जाने का	distriction of the second
	आणा को मंदेह हो जाता है १	<b>हा</b> ं∕न
20.	क्या विधालय मंं व्याप्त वर्गात्, जा तिवाद, धर्भाद में परा	
	जाने का अय आपको प्राय: रहता है 9	ਛਾਂ∕ਜ
21.	यदि कुछ लड़कें एक माथ वात करते दिशाई पड़ते हैं तो क्या आप	j
	को मंदेह हो जाता है कि वे होई बडयन्त्र रच रहें हैं १	ਫਾਂ∕ਜ
22.	पाठयकुप के नये परिवर्तनां में कया आप क्छ उत्यन हो जातेहें?	€Ť∦₹
23.	क्या आप पढ़ाते सपय बालकों द्वारा पूछे हर प्रानी का उत्तर	4
	देना प्राय: अचित मक्ति हैं १	हा <sup>‡</sup> /न
24.	कथा कक्षा में प्रवेश के पूर्व विभाग की तैयारी पर आप प्न:	
	विचार प्रायः करने लगते हैं 9	<u>€1,</u> ~
25.	क्या विधालय में उत्सवीं पर भाषण देने में आप धनराते हैं 9	हां /-
26.	क्या आप अधिकारियों कां प्रत्यत्तर न देकर वात को पन ही	, ,
	पं लिए रहते हैं १	हा /
27.	क्या पढ़ाने के लिए कक्षा में पहुचने के लिए आप को कभी कभी	,
	देर हो जापा करती है १	हां/ऋ
28.	क्या आप प्राय: अधिकारियों की निगाह बचाकर काम करते हैं?	et/18
29.	क्या आप अनुभव करते हैं कि आपके कुछ महयोगी विजायि मे.	1
	आपके विषय में प्राय: बात करते हैं 9	हां /स
30.	क्या विदार्थियों द्वारा पूछ गये प्रम पर आप सौचने लगते हैं कि	
	वे आपके ज्ञान की परोक्षा कर रहें हैं 9	ET / F

## व: कड़

1.	क्या आप किनो कारी के परिणाण पर विचार करना	
	भागायक समाने हैं :	हां/ हां
2•	वधा आप अनभव करते हैं कि 'नुष्य को प्रत्येक स्थिति पे	
	पत्थनाविद्य होता आचाश्यक नहीं है <b>9</b>	हां, तुः
3.	क्या आप थैयें और पटनातीनता को कमी के कारण प्राय: काम	
	करने में किंठिनार्र हा अनूषव करते हैं 9	हांं∕-डीं
1.	कथा आग अनुभव करते हैं कि आप तारा प्रदत्त आदशा	
	को वियाधी उतना नहीं गृहण करते जितना आप चाहते हैं १	हां/नहीं
5.	क्या आप ग्रायः पांस्कृतिक मूलयों को आधार पानकर काम	
	करते हैं १	हां/नहों
6.	क्या आप अनुभव दुरते हैं कि मन्ष्य का जीवन आदुश क्थी	
	किभी उसे प्रतिकूल परिणाप की ओर ले जाता है 9	हां/नहीं
7.	क्या आप अनुभव करते हैं कि नैतिक मृल्यों का गाधार मानकर	
	कार्यं करने ने अधिक सफराता प्राप्त होती है १	हा <b>ं</b> /= <sup>त</sup> ं
8.	्या आप नैतिक पूल्यों को गृहण करने की शिक्षा वालकों को	
	प्राय: देते हैं १	ਫ <b>ਾਂ</b> ∕ ∶
9.	कथा आप अन्भव करते हैं कि दृढ़ विचार रसने से मन्ष्य प्राय:	
	किठनार्ड में पड़ जाते हैं १	ET/
10.	क्या आप अनुभव करते हैं कि हानि उठाकर भी परोपकार करना	
	वांछनीय है 9	हां/२-
11.	क्या आपका विचार हैकि वियाधी गुरू को होगा आदर्श यान	
	कर कार्य करें 9	हां/नहः
12.	कया आप अनुभव करते हैं विना गुरू के विधायों नैतिकता की	
	उपलब्धि नहीं कर मकता १	हा ं /उहीं
13.	क्या आग अनुभव करते हैं कि निष्टक का आचरण नैतिक प्रधान	
	होना वांछनीय है १	हां/ऋं
14.	क्या आप जानते हैं कि जीनन के कृ <b>या क्ला</b> प मा उद्देश होते हैं9	हां/नहीं
15.	क्या आप का विष्याम है कि कठिनाईयों में पनाष्य को नैतिक	,
	मूल्यों का त्याग करना अवांछनोय नहीं है १	हां/नडीं

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16.	क्षा आप अप । .हियो गिया है विशेषित है कि ने आप	<b>計</b> /
	हो । वस्ट आनिस्म करें 9	
17.	क्या आप दण विकास है दि भाता—विवास के अप्रियं कार्य—	
	क्री पर भी उन्हें प्रापाद है में विकितिय है 9	हां /
18.	क्या आपका विचार है हैं। हिंट पें असत्य तोनना न्रा नहीं है9	ਗ <b>ਂ</b> /
19.	क्या आंधारारियां की और ने दबाव पड़ने पर भी आप गत्य	
	के लहने में अयभीत नहीं होते १	हां/
20.	वया आप अधिकारियां को नैतिक पल्यों के विषय वं निर्भुश	
	देना वेदार महाते हैं 9	हा <b>ं</b> /
21.	वधा झठ बोलने वारो व्यक्तियों को भी आप कभी-कभी परान्द	हां/
	करते हैं 9	
22.	क्या आप अनथव रस्ते हैं कि पानव में 1 सी प्नाष्ट्रय हुए एक	
	पात्र धर्प है १	<u>ਛਾਂ</u> /
23.	क्या अग्रम अन्यव करते हैं कि दूगरों के मूल के किए अपने पूर्वी	
	का त्याग करना वांछनीय है १	ਦਾਂ/
24.	क्था आम अनुभव करते हैं कि मभी अगहारा दिखलाई पड़ी गाले	हां/
	ामित द्या लें पान हैं ?	
25.	क्या आप अनुभव वरते हैं कि नवीपान परिस्थितियों में व्यक्ति का	
	ूपरों के मृति हादिएण विकास ता ति है १	ਵਾ <b>ਂ</b> /
26.	क्या आप विधार्थियों का अध्यापक के पृत्ति आत्र शान न	
	दिखताना उचित सम्झतं हैं 9	हां/
27.	क्या आप किसी विधार्थी हारा चुराई गई छोटी वस्तओं	-
	की फिरायत होने पर ध्यान नहीं देते 9	<u>ਵਾਂ</u> /
20•	क्या आप अनुभव करते हैं कि दूमरों की वराई करने में ही	
	अधिकारियों को क्षा प्राप्त होती है 7	et/
29.	क्या आप किपी पहा परुष के जीवन—आर्दण को लक्ष्य मानकर	
	बाप करते हैं १	हाँ/
30.	क्या आप अध्ययन तथा अध्यापन पें जीवन को गहेली को ही	
	हल करने का प्रयत्न करते हैं 9	हां/